COAXIAL TERMINATIONS

DC – 40.0 GHz **1—1000 WATTS**

Low Power Coaxial Terminations: 1 Watt to 25 Watts					
Model Number	**Frequency Range DC - (GHz)**	**Average Power (W)**	**Peak Power (kW)**	**Connectors and Mounting Notes**	**Page No.**
WA1401/3	3	1	0.25	SMA	73
WA1401/6	6	1	0.25	SMA	73
WA1401/12	12.4	1	0.25	SMA	73
WA1401/18	18	1	0.25	SMA	73
WA1402	40	1	0.25	SMA	74
WA1455/6	6	2	0.50	N, TNC	110
WA1406	12.4	2	0.50	SMA	75
WA1455/12	12.4	2	0.50	N, TNC	110
WA1408	18	2	1	SMA	75
WA1455	18	2	0.50	N, TNC	110
WA1409	26.5	2	0.50	SMA	76
WA1454	40	2	0.25	2.92 mm	109
WA1424/12	12.4	5	1	N, TNC	82
WA1424	18	5	1	N, TNC	82
WA1443	18	5	1	SMA	99
WA1475	40	5	0.20	2.92 mm	117
WA1425/12	12.4	10	1	N, TNC	83
WA1425	18	10	1	N, TNC	83
WA1419	18	10	1	SMA	77
WA1476	40	10	0.20	2.92 mm	118
WA1489	40	20	0.20	2.92 mm	119
WA1421/4	4	25	5	N, SMA, Low-Profile Mountable	78
WA1421	8.5	25	5	N, SMA, Low-Profile Mountable	78
WA1434	4	25	5	N, SMA, 7/16 DIN	93
WA1434B	4	25	5	N, SMA, Square Body Mountable	94
WA1452	4	25	5	N, SMA, 7/16 DIN	107
WA1433	8.5	25	5	N, SMA, 7/16 DIN	91
WA1433B	8.5	25	5	N, SMA, Square Body Mountable	92
WA1427	10	25	5	N, SMA, 7/16 DIN	86
WA1446	18	25	1	N, SMA, TNC	102
WA1444	26.5	25	0.50	3.5 mm	100

* Other configurations are available

Custom solutions at "off-the-shelf" prices

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: http://www.WeinschelAssociates.com

EMAIL: sales@WeinschelAssociates.com

COAXIAL TERMINATIONS

DC – 40.0 GHz **1—1000 WATTS**

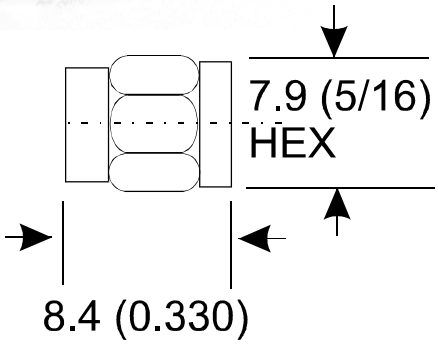
Medium Power Coaxial Terminations: 50 Watts to 150 Watts					
Model Number	Frequency Range DC - (GHz)	Average Power (W)	Peak Power (kW)	Connectors and Mounting Notes	Page No.
WA1423	4	50	5	N, SMA	80
WA1423B	4	50	5	N, SMA, Square Body Mount	81
WA1471	4	50	5	N, SMA, Low-Profile Mountable	115
WA1426	8.5	50	5	N, SMA, 7/16 DIN	84
WA1426B	8.5	50	5	N, SMA, Square Body Mount	85
WA1472	8.5	50	5	N, SMA, Low-Profile Mountable	116
WA1447	18	50	1	N, SMA, TNC	103
WA1490	18	50	1	N, SMA, TNC	120
WA1422	4	75	5	N, SMA	79
WA1429	8.5	75	5	N, SMA, 7/16 DIN	88
WA1430	4	100	5	N, SMA, 7/16 DIN	89
WA1431	8.5	100	5	N, SMA, 7/16 DIN	90
WA1448	18	100	1	N, SMA, TNC	104
WA1491	18	100	1	N, SMA	121
WA1428	2.5	150	10	N, SMA, 7/16 DIN	87
WA1439	2.5	150	5	N, SMA, 7/16 DIN	98
WA1449	8.5	150	5	N, SMA, 7/16 DIN	105
WA1465	2.5	150	10	N, 7/16 DIN	113

High Power Coaxial Terminations: 250 Watts to 1000 Watts					
Model Number	Frequency Range DC - (GHz)	Average Power (W)	Peak Power (kW)	Connectors and Mounting Notes	Page No.
WA1445	2.5	250	10	N, SMA, 7/16 DIN	101
WA1458	5	250	10	N, SMA, 7/16 DIN	111
WA1435	8.5	250	5	N, SMA, 7/16 DIN	95
WA1438	5	300	5	N, SMA, 7/16 DIN	97
WA1436	8.5	300	5	N, SMA, 7/16 DIN	96
WA1453	2.5	500	10	N, SMA, 7/16 DIN	108
WA1460	5	500	10	N, SMA, 7/16 DIN	112
WA1451	8.5	500	5	N, SMA, 7/16 DIN	106
WA1470	3	1000	10	N, 7/16 DIN	114

TERMINATION MODEL WA1401

DC – 3.0 GHz WA1401/3
DC – 6.0 GHz WA1401/6
DC – 12.4 GHz WA1401/12
DC – 18.0 GHz WA1401/18

1 WATT



Features

Type SMA male connector per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Subminiature size and light weight.

Specifications

Nominal Impedance: 50 ohms

Frequency Range:

WA1401/3	DC – 3.0 GHz
WA1401/6	DC – 6.0 GHz
WA1401/12	DC – 12.4 GHz
WA1401/18	DC – 18.0 GHz

Power Rating: 1 watts average, 250 watts peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 0.0 watts at 125° C.

Temperature Range: -55°C to +125°C.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Passivated stainless steel body and connectors. Stainless steel or gold-plated beryllium copper male contact.

Physical Dimensions:

Length: 8.4 (0.330)

Weight: 3.0 gm/ .11 oz.

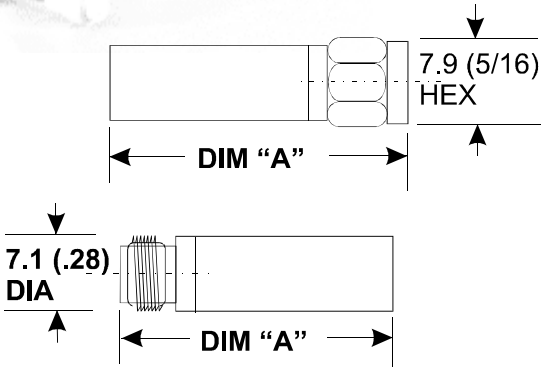
Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.05
4.0 – 8.0	1.10
8.0 – 12.4	1.15
12.4 – 18.0	1.20

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1402

DC – 40.0 GHz 1 WATT



Features

Type 2.92mm male/female (Type K) connectors, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 40.0 GHz

Power Rating: 1 watts average, 250 watts peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 0.1 watts at 125° C (5µsec pulse width 0.2 % duty cycle).

Temperature Range: -55°C to +125°C.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Passivated stainless steel body and connectors. Gold plated beryllium copper contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 40.0	1.20

Physical Dimensions:

Length:

Connector Type	DIM "A"
Female -1 Male -2	20.32 (.80) 19.05 (.75)

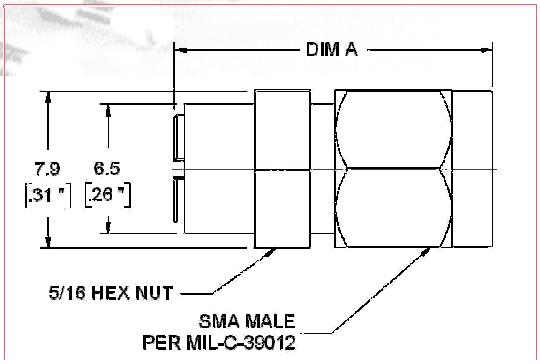
Weight: 4.9 gm/ .14 oz.

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1406A & WA1408A

DC – 12.4 GHz WA1406A
DC – 18.0 GHz WA1408A

2 WATTS



Features

Type SMA connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: WA1406A DC - 12.4 GHz
WA1408A DC - 18.0 GHz

Power Rating: 2 watts average, 500 watts peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 0.5 watt at 125° C).

Temperature Range: -55°C to +125°C.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Passivated stainless steel body and connectors. Gold-plated beryllium copper female contact, stainless steel or gold-plated beryllium copper male contact.

Weight: 4.9 gm/ 14 oz

Physical Dimensions:

Length:

Connector Type	DIM "A"
SMA Female -1 SMA Male -2	23.62 (.93) 23.11 (.91)

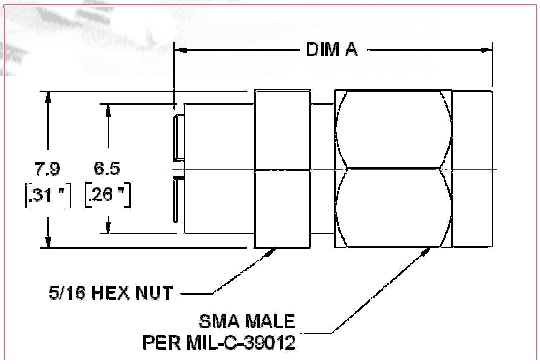
Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.15
4.0 – 8.0	1.20
8.0 – 12.4	1.25
12.4 – 18.0 (WA1408A)	1.25

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1409

DC – 26.5 GHz 2 WATTS



Features

Type SMA Male connector per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 26.5 GHz

Power Rating: 2 watts average, 500 watts peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 0.5 watt at 125° C).

Temperature Range: -55°C to +125°C.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Passivated stainless steel body and connectors. Gold-plated beryllium copper female contact, stainless steel or gold-plated beryllium copper male contact.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.15
4.0 – 8.0	1.20
8.0 – 18.0	1.25
18.0 – 26.5	1.40

Physical Dimensions:

Length:

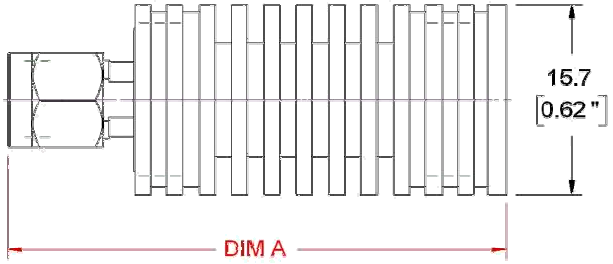
Connector Type	DIM "A"
SMA Male -2	23.11 (.91)

Weight: 4.9 gm/ 14 oz

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1419

DC – 18.0 GHz 10 WATTS



Model WA1419-2 Shown

Features

Stainless steel M/F SMA connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Compact design for one of the lowest size/power ratios available. Designed to meet MIL-DTL-3933 environmental specification. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 10 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 0.5 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 0.05% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Maximum VSWR

Frequency (GHz)	VSWR
DC – 8.0	1.20
8.0 – 12.4	1.30
12.4 – 18.0	1.35

Weight:
0.014 kg/ 5 oz.

Physical Dimensions:

Length:

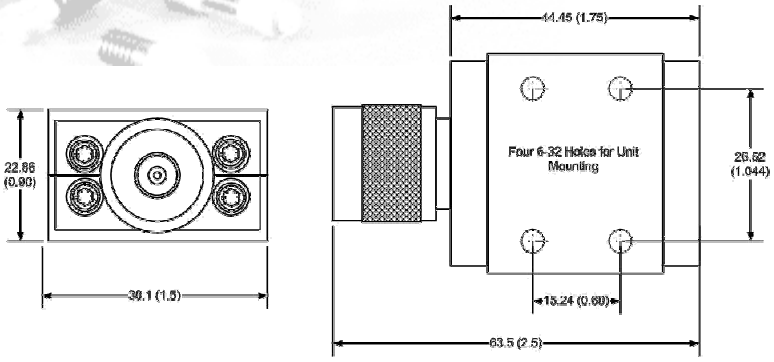
Connector	Dimension A
WA1419-1	39.4 (1.55)
WA1419-2	41.4 (1.63)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION Model WA1421/4 & WA1421
Low-Profile Mountable

DC—4.0 GHz WA1421/4 **25 Watts**
DC—8.5 GHz WA1421 **25 Watts**



Features

Designed to meet environmental requirements of MIL-DTL-39030. Conductive cooling.

Specifications

Nominal Impedance: 50 ohms

Frequency Range:

WA1421/4 DC - 4.0 GHz
WA1421 DC - 8.5 GHz

Power Rating: 25 watts average, 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle) with case temperature held to +100°C maximum using conductive heat sink.

Temperature Range: -55°C to +125°C

Temperature Coefficient: < 0.0004 dB/dB/°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20
4.0 – 8.5	1.30

Connectors: Type N or SMA, stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Weight:

Type N .17 kg/ 6 oz.

Physical Dimensions:

Length:

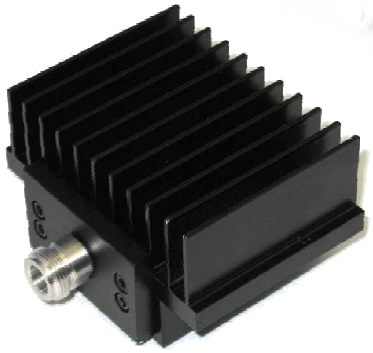
Connector Type	Length
Type N	78.7 (3.1)
SMA	71.1 (2.8)

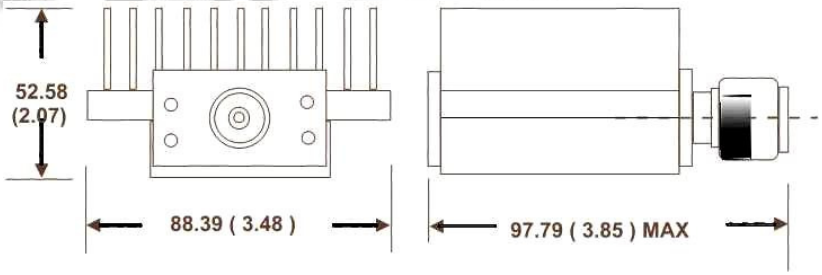
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1422

DC – 4.0 GHz 75 WATTS





Features

Type N, SMA or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specifications. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power Rating: 75 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 15 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contact, stainless steel or gold-plated beryllium copper male contact.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Physical Dimensions:

Length:

Connector	Length
Type N	97.79 (3.85)
SMA	89.31 (3.52)

Width: 89.0 (3.5)

Height: 53.0 (2.1)

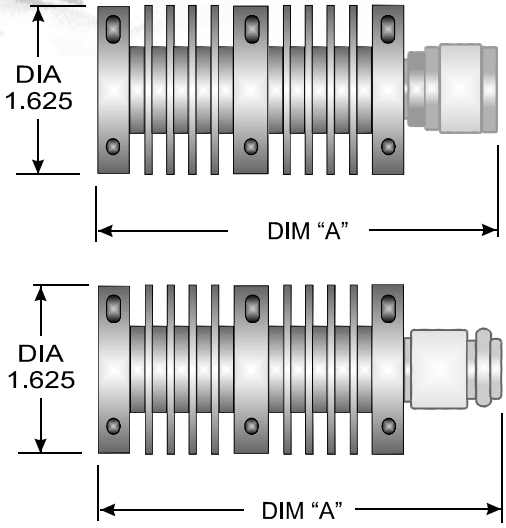
Weight:

Type N	1.5 kg/ 3.3 lb.
SMA	1.3 kg/ 3.0 lb.

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1423

DC – 4.0 GHz 50 WATTS



Features

Designed to comply with MIL-DTL-39030

Natural Convection Cooling

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power: 50W CW average to 25°C; de-rated linearly to 2.5 W at 125°C. Peak power of 5KW; 5µsec pulse width; 0.5% duty cycle.

Temperature Range: -55°C to 125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors.

Connectors: Type N, SMA, or DIN 7/16; stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20

Weight: .28 kg/10 oz.

Physical Dimensions:

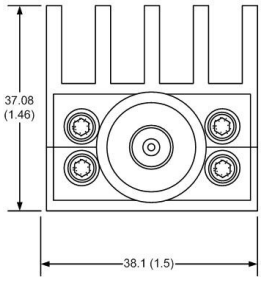
Length:

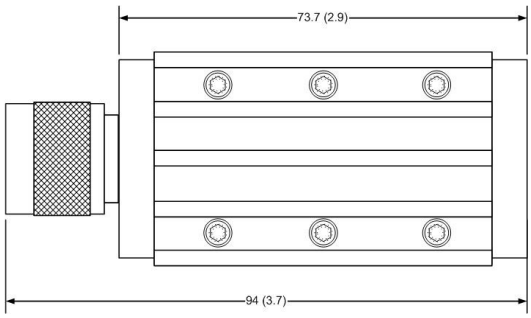
Connector Type	DIM "A"
Type N Female –3 Type N Male –4	90.17 (3.55) 96.98 (3.818)
SMA Female –1 SMA Male –2	85.80 (3.378) 89.76 (3.534)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1423B

DC – 4.0 GHz 50 WATTS





Features

Designed to comply with MIL-A-39030

Natural Convection Cooling

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power: 50W CW average to 25°C; de-rated linearly to 2.5 W at 125°C. Peak power of 5KW; 5µsec pulse width; 0.5% duty cycle.

Temperature Range: -55°C to 125°C

Connectors: Type N, SMA, or TNC; stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Construction: Black aluminum alloy body with passivated stainless steel connectors.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20

Weight: .28 kg/10 oz.

Physical Dimensions:

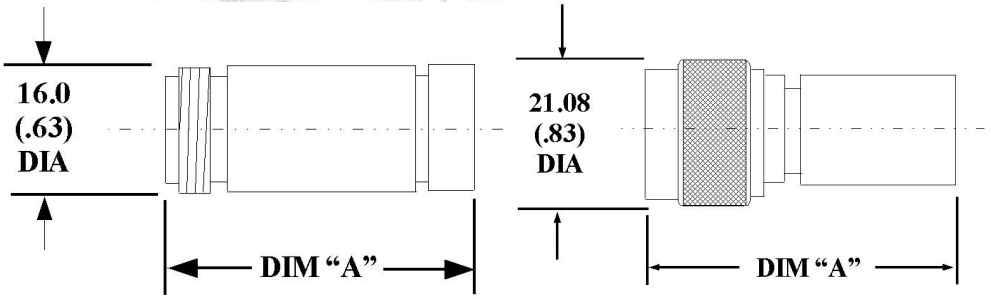
Length:

Connector Type	Length
Type N Female –3 Type N Male –4	90.1 (3.5) 94.0 (3.7)
SMA Female –1 SMA Male –2	85.80 (3.3) 89.76 (3.5)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1424

DC – 12.4 GHz WA1424/12
DC – 18.0 GHz WA1424 **5 WATTS**



Model WA1424-3 & WA1424-4

Features

Type N or TNC stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range:

WA1424/12:	DC - 12.4 GHz
WA1424:	DC - 18.0 GHz

Power Rating: 5 watts average power to 25°C ambient temperature, de-rated linearly to 0 watts at 125°C. 5 kilowatts peak (5 µsec pulse width; 0.05% duty cycle). 1 kilowatts peak (5 µsec pulse width; 0.25% duty cycle).

Temperature Range: -55°C to +125°C

Temperature Coefficient: < 0.0004 dB/dB/°C

Construction: Passivated stainless steel body and connectors. Gold plated beryllium copper contacts.

Weight:

1424-3	.06 kg/ 2.0 oz.
1424-4	.06 kg/ 2.0 oz.
1424-5	.06 kg/ 2.2 oz.
1424-6	.06 kg/ 2.2 oz.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.0	1.03
2.0 – 4.0	1.05
4.0 – 8.0	1.15
8.0 – 12.4	1.30
12.4 – 18.0	1.35

Physical Dimensions:

Length:

Connector	Dim "A"
1424-3 N(f)	40 (1.6)
1424-4 N(m)	45 (1.8)
1424-5 TNC(f)	45 (1.8)
1424-6 TNC(m)	48 (1.9)

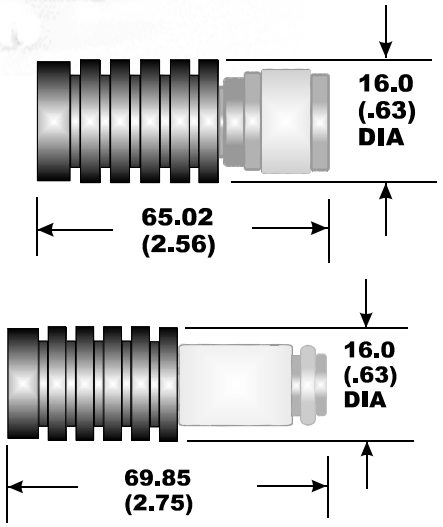
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1425

DC – 12.4 GHz WA1425/12
DC – 18.0 GHz WA1425

10 WATTS



WA1425-4 Shown

Features

Type N, TNC, or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range:

WA1425/12:	DC - 12.4 GHz
WA1425:	DC - 18.0 GHz

Power Rating: 10 watts average, 1 kilowatt peak (5 µsec pulse width; 1.5% duty cycle). Full power from -50°C to +25°C; derated linearly to 0.5 W at +125° C.

Temperature Range: -55°C to +125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.0	1.03
2.0 – 4.0	1.05
4.0 – 8.0	1.15
8.0 – 12.4	1.30
12.4 – 18.0	1.35

Physical Dimensions:

Length:

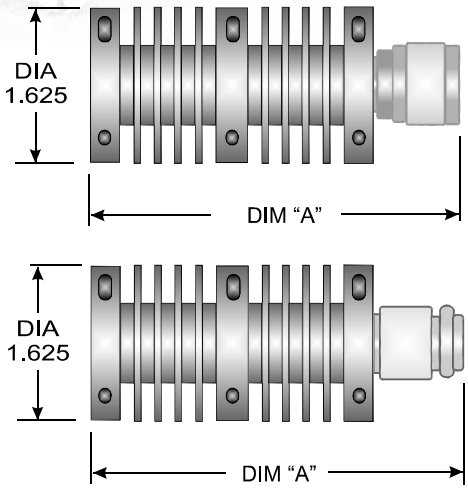
DIN 7/16 male & female 79.25 (3.12)

Weight: .11 kg/ 4 oz

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1426

DC – 8.5 GHz 50 WATTS



Features

Type N, SMA, or DIN 7/16 DIN connectors per MIL-STD-348A, interface dimensions mate non-destructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power: Full power (50 W) from -55°C to +25°C. Derated linearly to 2.5 W at +125°C. 5 kilowatts peak power.

Temperature Range: -55°C to +125°C.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20
4.0 – 8.5	1.30

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper male and female contacts.

Weight: .28 kg/ 10 oz

Physical Dimensions:

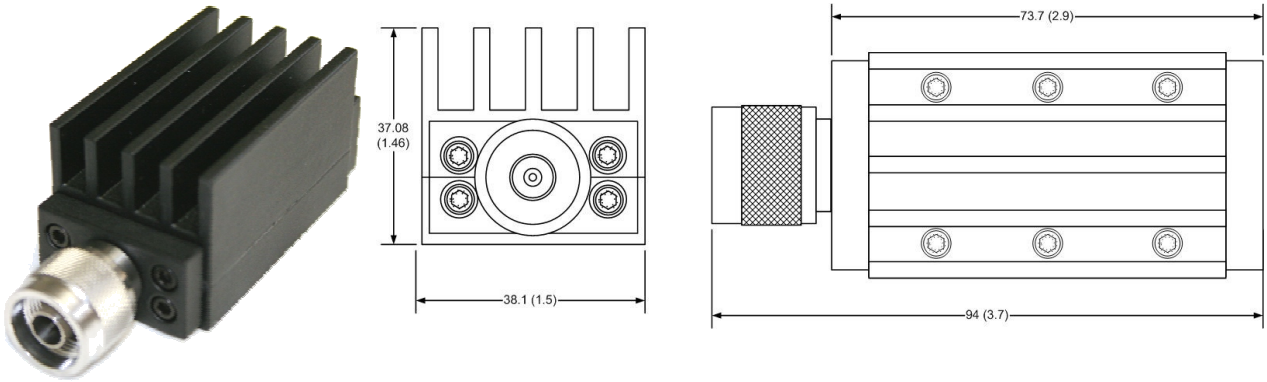
Length:

Connector Type	DIM "A"
Type N Female –3 Type N Male –4	90.17 (3.55) 96.98 (3.818)
SMA Female –1 SMA Male –2	85.80 (3.378) 89.76 (3.534)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1426B

DC – 8.5 GHz 50 WATTS



Features

Type N, SMA or TNC connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power: Full power (50 W) from -55°C to +25°C. Derated linearly to 2.5 W at +125°C. 5 kilowatts peak power.

Temperature Range: -55°C to +125°C.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.20
4.0 – 8.5	1.30

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper male and female contacts.

Weight: 0.28 kg/ 10 oz

Physical Dimensions:

Length:

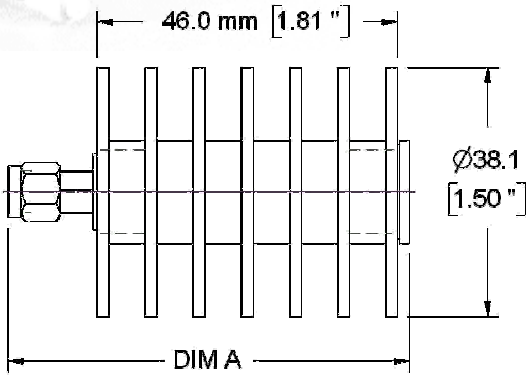
Connector Type	Length
Type N Female -3	88.90 (3.22)
Type N Male -4	97.03 (3.7)

Mounting: Six, 6-32 mounting holes on base.

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1427

DC – 10.0 GHz 25 WATTS



Features

Type N, SMA or TNC stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 10.0 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 2.5 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0	1.10
4.0 – 10.0	1.15

Weight: .17 kg/ 6 oz

Physical Dimensions:

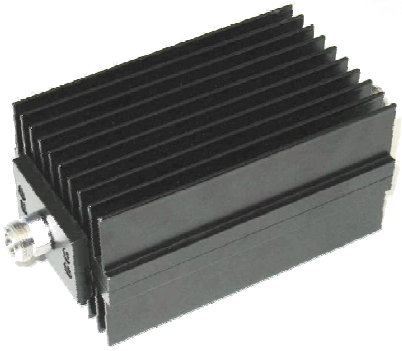
Length:

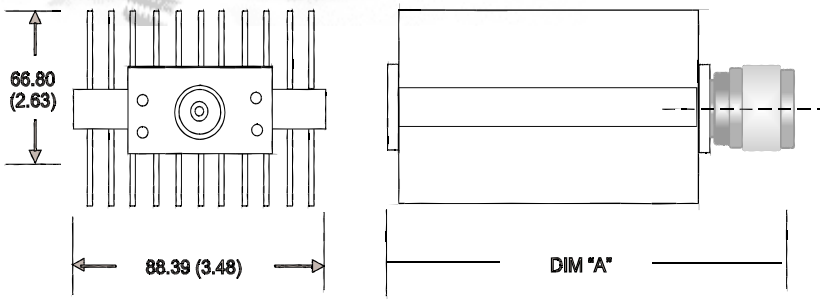
Connector Type	DIM "A"
Type N Female -3 Type N Male -4	60.99 (2.4) 68.57 (2.7)
SMA Female -1 SMA Male -2	58.43 (2.3) 60.99 (2.4)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1428

DC – 2.5 GHz 150 WATTS





Model WA1428-3 shown

Features

Type N, SMA, or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 2.5 GHz

Power Rating: 150W CW / 10 KW peak. Full power from -55°C to +25°C; derated linearly to 15 Watts at 125°C.

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 1.5	1.10
1.5 - 2.5	1.20

Physical Dimensions:

Length and Weight:

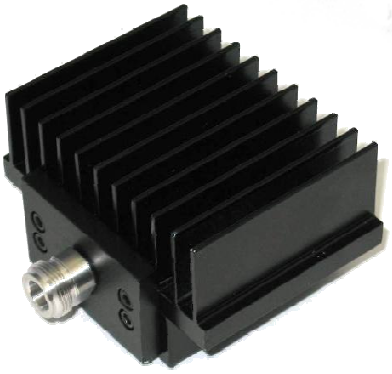
Connector Type	Dim "A"	Weight kg/lb
N F WA1428-3	144.78 (5.70)	1.13/2.5
N M WA1428-4	152.90 (6.02)	1.13/2.5
7/16 F WA1428-8	177.80 (7.00)	1.22/2.7
7/16 M WA1428-9	178.82 (7.04)	1.25/2.75

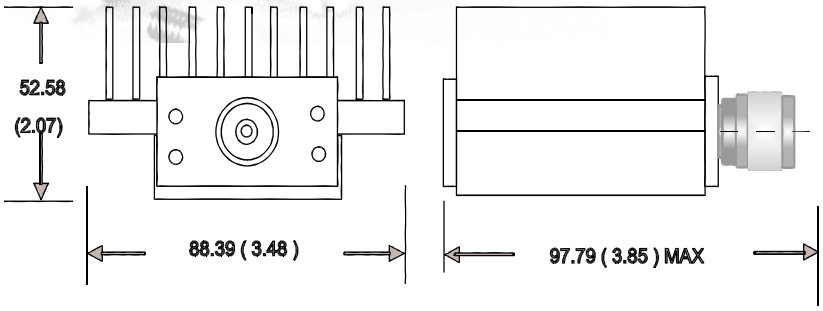
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1429

DC – 8.5 GHz 75 WATTS





Features

Type N, SMA or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate non-destructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification. Unit may be mounted in any position.

Specifications

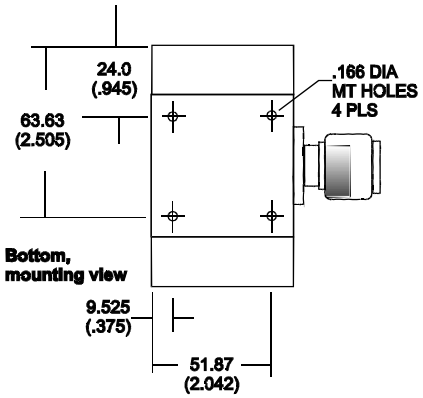
Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power Rating: 75 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 10 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Mounting Holes:



Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold-plated beryllium copper female contact, stainless steel or gold-plated beryllium copper male contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20
4.0 - 8.5	1.30

Length:

Connector	Length
Type N	97.79 (3.85)
SMA	89.31 (3.52)

Width: 89.0 (3.5)

Height: 53.0 (2.1)

Weight:

Type N	1.5 kg/ 3.3 lb
SMA	1.3 kg/ 3.0 lb

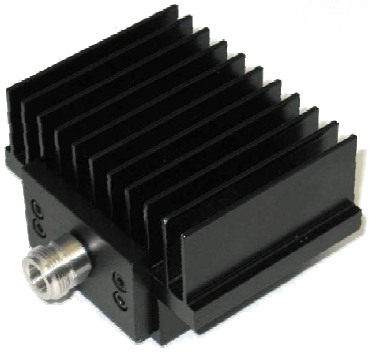
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

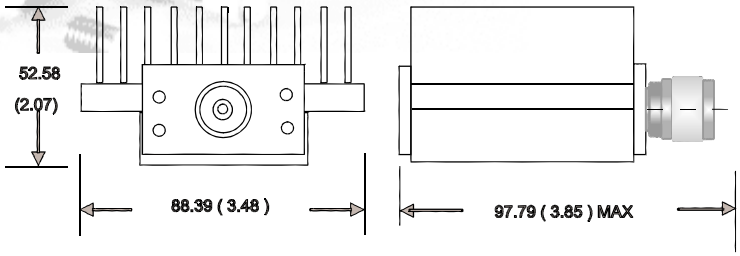
WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1430

DC – 4.0 GHz 100 WATTS





Features

Type N, SMA or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0GHz

Power Rating: 100 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 10 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contact, stainless steel male contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	1.5 kg/ 3.3 lb.
SMA	1.3 kg/ 3.0 lb.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20

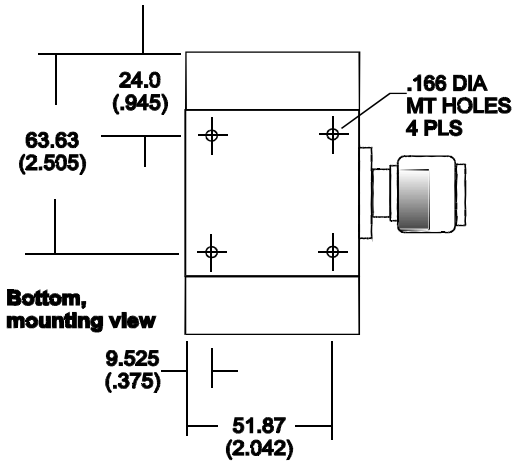
Physical Dimensions:

Length: 97.79 (3.85)

Height: 52.58 (2.07)

Width: 88.39 (3.48)

Note: Dimensions are given in mm (inches) and are maximum, Unless otherwise specified.



WEINSCHEL ASSOCIATES

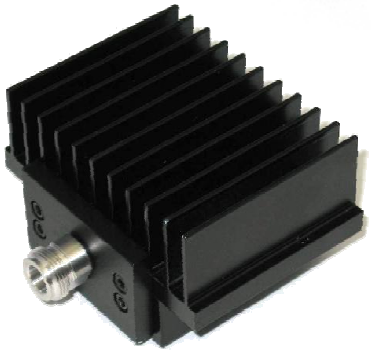
TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

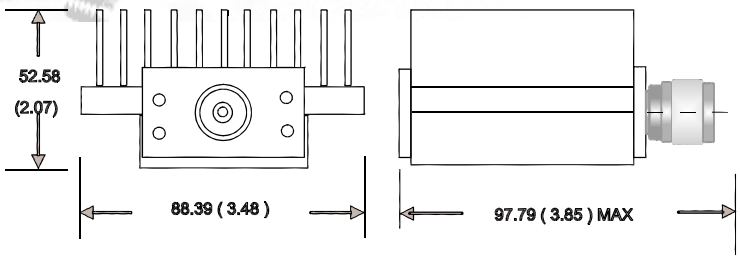
WEB: http://www.WeinschelAssociates.com

EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1431

DC – 8.5 GHz 100 WATTS





Features

Type N, SMA or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power Rating: 100 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 10 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contact, stainless steel or gold-plated beryllium copper male contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	1.5 kg/ 3.3 lb
SMA	1.3 kg/ 3.0 lb

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20
4.0 - 8.5	1.30

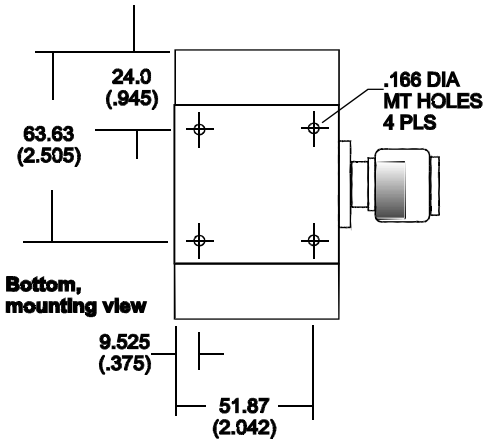
Physical Dimensions:

Length: 97.79 (3.85)

Height: 52.58 (2.07)

Width: 88.39 (3.48)

Note: Dimensions are given in mm (inches) and are maximum, Unless otherwise specified.



WEINSCHEL ASSOCIATES

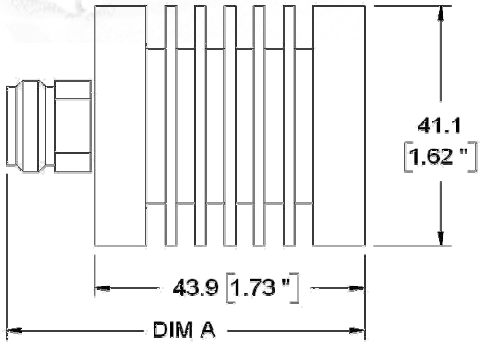
TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: http://www.WeinschelAssociates.com

EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1433

DC – 8.5 GHz 25 WATTS



Model WA1433-1 Shown

Features

Type N, SMA or 7/16 DIN stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -8.5 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 1.5 watts at 125° C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20
4.0 – 8	1.30

Physical Dimensions:

Length:

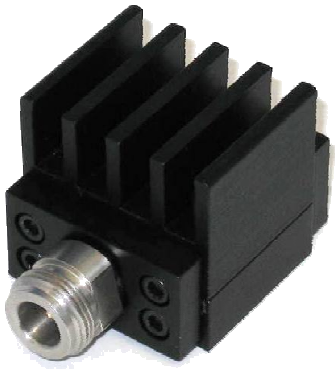
Connector Type	Dimension "A"
Type N Female -3 Type N Male -4	60.99 (2.4) 68.57 (2.7)
SMA Female -1 SMA Male -2	58.43 (2.3) 60.99 (2.4)

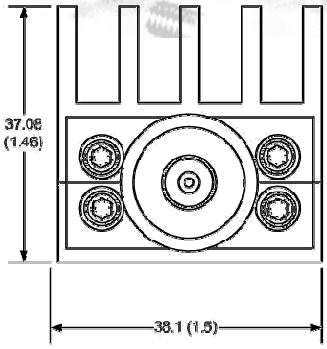
Weight: 0.17 kg/ 6 oz

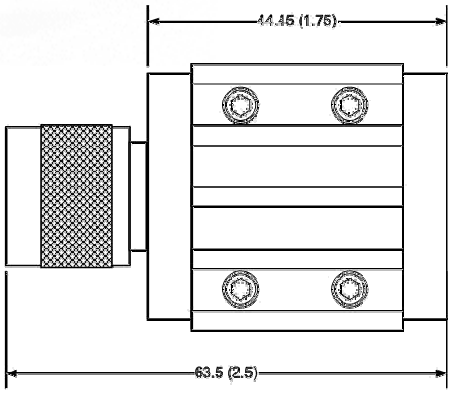
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1433B

DC – 8.5 GHz 25 WATTS







Features

Type N, SMA, or 7/16 DIN stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -8.5 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 1.5 watts at 125° C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20
4.0 - 8	1.30

Physical Dimensions:

Length:

Connector Type	Length
Type N Female -3 Type N Male -4	60.9 (2.4) 63.5 (2.5)
SMA Female -1 SMA Male -2	58.4 (2.3) 60.9 (2.4)

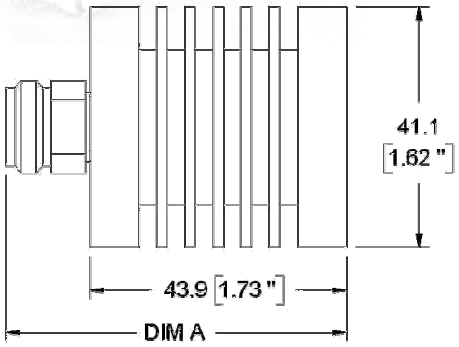
Weight: 0.17 kg/ 6 oz

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified .

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1434

DC – 4.0 GHz 25 WATTS



Features

Type N, SMA, or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 1.5 watts at 125° C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20

Physical Dimensions:

Length:

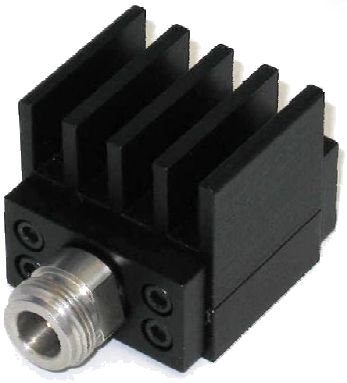
Connector Type	Dimension "A"
Type N Female -3 Type N Male -4	60.99 (2.4) 68.57 (2.7)
SMA Female -1 SMA Male -2	58.43 (2.3) 60.99 (2.4)

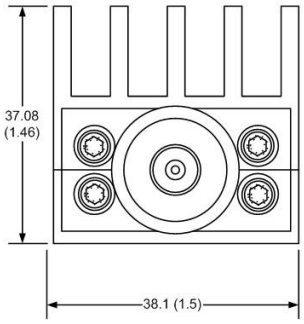
Weight: 0.17 kg/ 6 oz

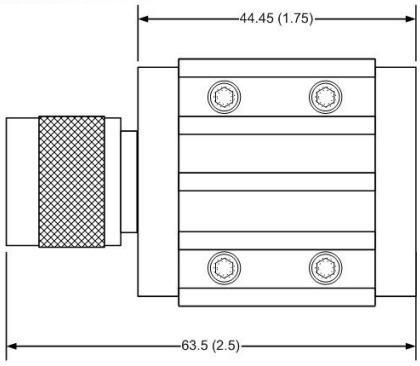
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1434B

DC – 4.0 GHz 25 WATTS







Features

Type N, SMA, or TNC stainless steel connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 1.5 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.20

Physical Dimensions:

Length:

Connector Type	Length
Type N Female -3 Type N Male -4	60.9 (2.4) 63.5 (2.5)
SMA Female -1 SMA Male -2	58.43 (2.3) 60.99 (2.4)

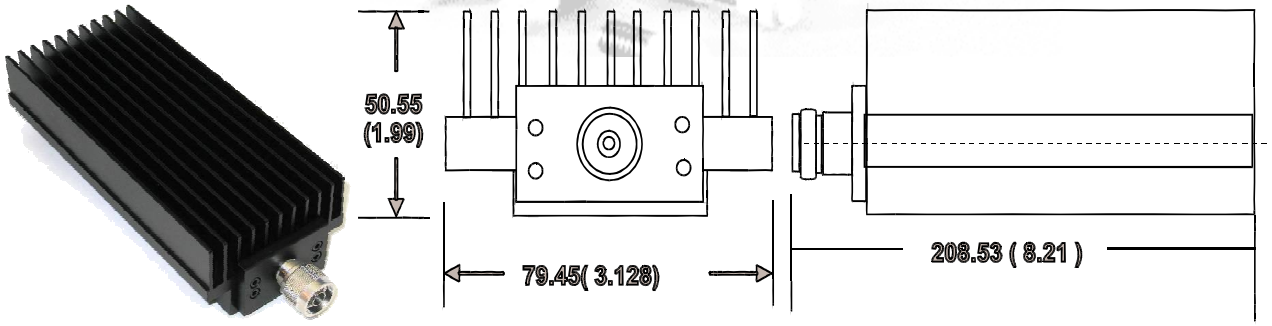
Weight: 0.17 kg/ 6 oz

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1435

DC – 8.5 GHz 250 WATTS



Features

Type N or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification. Other connector configurations available.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power Rating: 250 watt CW/ 5KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 15 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Intermodulation (WA1435-X-LIM only): Reflected IM3 = -100 dBc, nominal, with two input signals with an average power of +43 dBm each.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Temperature Range: -55°C to +125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.30
4.0 - 8.5	1.45

Physical Dimensions:

Length: 208.53 (8.21)

Width: 79.45 (3.128)

Height: 50.55 (1.99)

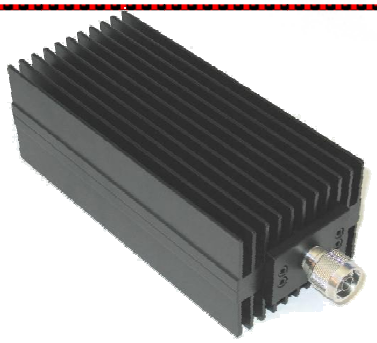
Weight: 1.28 kg/ 2.75 lbs

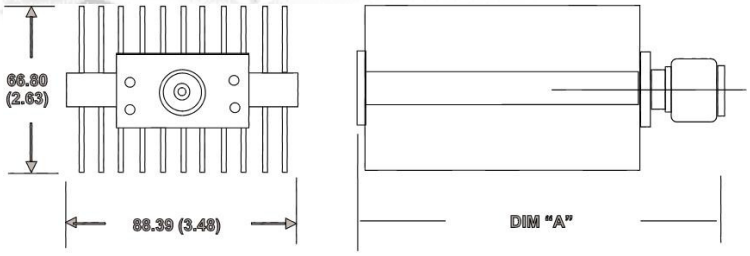
Note: Dimensions are given in mm (inches) and are maximum ± .05 in., unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1436

DC – 8.5 GHz 300 WATTS





Features

Type N and 7/16 DIN stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-3933 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Power Sensitivity: < 0.0001 dB / dB x W Unidirectional in power.

Power Rating: 300 watt CW/ 5KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 25 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Temperature Coefficient: < 0.0004 dB/dBx°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Calibration: Insertion Loss and VSWR performed at DC, 2.0, 4.0, and 8.5 GHz. All calibration data is available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 4.0 4.0 – 8.5	1.30 1.45

Weight: 1.28 kg/ 2.75 lbs.

Length: 233.93 (9.21)

Width: 79.45 (3.13)

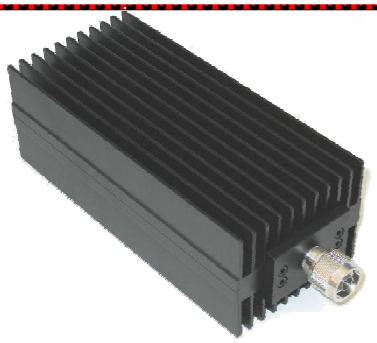
Height: 50.55 (1.99)

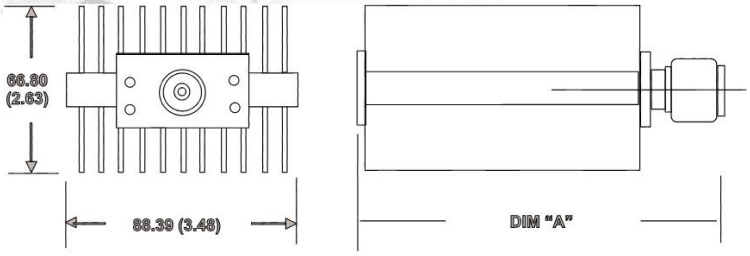
Note: Dimensions are given in mm (inches) and are maximum ± .05 in., unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1438

DC – 5.0 GHz 300 WATTS





Features

Type N and 7/16 DIN stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-3933 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 5.0 GHz

Power Sensitivity: < 0.0001 dB/dBxW Unidirectional in power.

Power Rating: 300 watt CW/ 10KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 25 watts at 125° C. 10 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C.

Temperature Coefficient: < 0.0004 dB/dBx°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Calibration: Insertion Loss and VSWR performed at DC, 2.0, 4.0, and 5.0 GHz. All calibration data is available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.0 2.0 – 5.0	1.15 1.25

Weight: 1.28 kg/ 2.75 lbs.

Length: 233.93 (9.21)

Width: 79.45 (3.13)

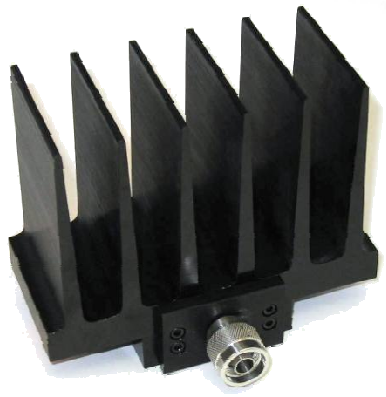
Height: 50.55 (1.99)

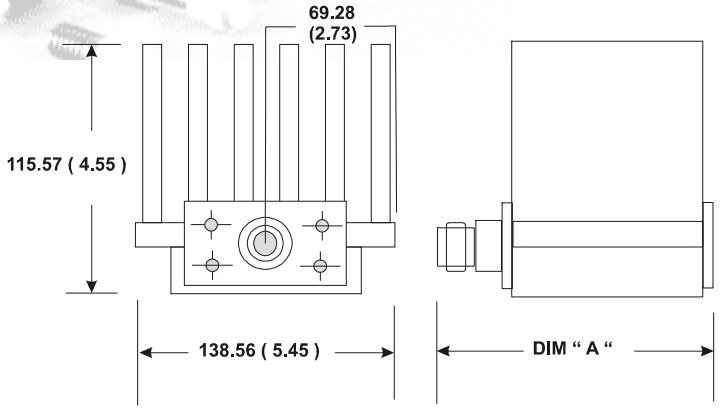
Note: Dimensions are given in mm (inches) and are maximum ± .05 in., unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1439

DC – 2.5 GHz **150 Watts**





Features

Stainless Steel Type N or 7/16 DIN M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 2.5 GHz

Operation: Horizontal or Vertical

Maximum VSWR: 1.20

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Power Rating: 150 watt maximum rated average power to 25°C ambient temperature, mounted horizontally or vertically, (*with unobstructed air flow for natural convection cooling*) de-rated linearly to 0 watts at 125°C, 10 kilowatt peak (5 µsec pulse width; .75% duty cycle).

Temperature Range: Full power from -55°C to 100°C, Case temperature. -55°C to 125°C

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper female contacts or passivated stainless steel male contacts.

Weight:

Type N	.91 Kg/ 2 lbs.
7/16 DIN	1.0 Kg/ 2.2 lbs.

Physical Dimensions: Connector Options

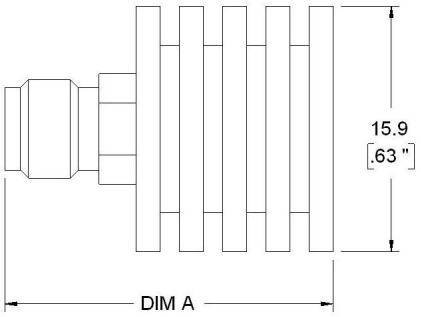
Connector	Dimension "A"
Type N Male (-4) Type N Female (-3)	96.6 (3.8) 88.9 (3.5)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1443

DC – 18.0 GHz **5 WATTS**



Features

Stainless steel Male or Female SMA connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Compact design for one of the lowest size/power ratios available. Designed to meet MIL-DTL-39030 environmental specifications. Unit may be mounted in any position.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 5 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 0.5 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 0.05% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Calibration: VSWR performed across frequency range. Option 890 or custom calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 18.0	1.20

Weight: 10 g (0.35 oz)

Physical Dimensions:

Length:

Connector Option	Length Dim. A
SMA Male (-2)	23.2 (0.91)
SMA Female (-1)	20.9 (0.82)

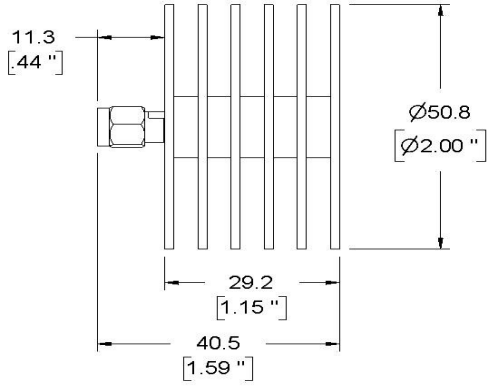
Width: 16.0 (0.63)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1444
3.5mm Connector

DC – 26.5 GHz 25 WATTS



Features

Stainless steel Male or Female 3.5mm connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Compact design for one of the lowest size/ power ratios available. Designed to meet MIL-DTL-39030 environmental specifications. Unit may be mounted in any position. Optional 2.92mm connector available.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 26.5 GHz.

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 2.5 watts at 125°C. 500 watts peak (5 µsec pulse width; 2.5% duty cycle).

Temperature Range: -55°C to +125°C.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Connectors: 3.5mm stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 26.5	1.25

Weight: 100 g (3.53 oz)

Physical Dimensions:

Length:

Connector Option	Length
3.5mm Male (-2)	40.5 (1.59)
3.5mm Female (-1)	39.5 (1.55)

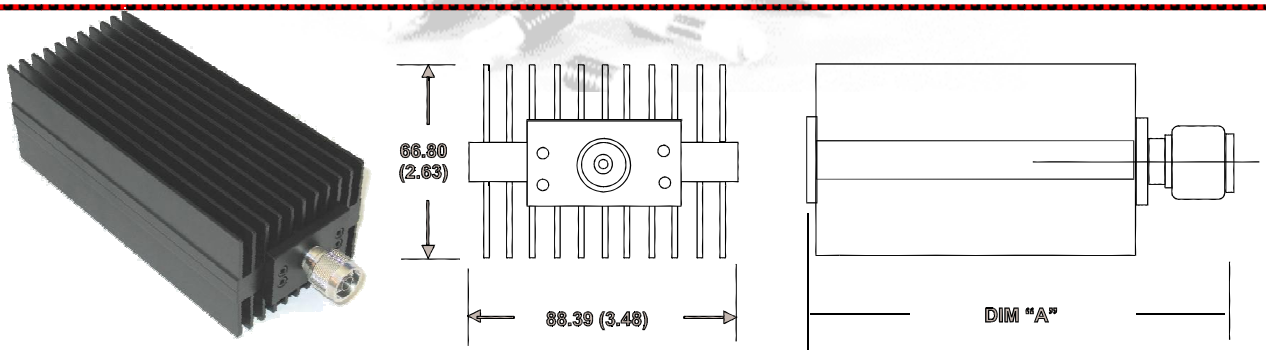
Width: 50.8 (2.00)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

WEINSCHEL ASSOCIATES
TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1445

DC – 2.5 GHz 250 WATTS



Features

Type N, 4.1 stainless steel M/F, or DIN 7/16 DIN connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-3933 environmental specification.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.5	1.10

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 2.5 GHz

Power Rating: 250 watt CW/ 10KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 15 watts at 125°C. 10 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connector. Gold plated beryllium copper female contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight: 1.5 kg/ 3.5 lbs.

Connectors: Type N; stainless steel connectors per MIL-STD-348 Interface dimension mate nondestructively with MIL-PRF-39012 connectors.

Dimension "A": 212.09 (8.350)

Height: 66.80 (2.63)

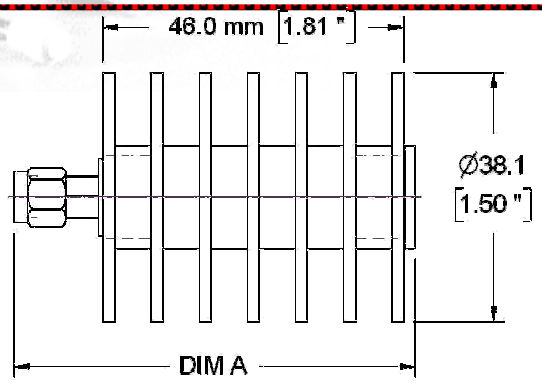
Width: 88.39 (3.48)

Note: Dimensions are given in mm (inched). Dimensions are maximum unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1446

DC –18.0 GHz 25 WATTS



Features

Type N or SMA stainless steel M or F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-3933 environmental specifications.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 25W CW/ 1 KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 10 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connector. Gold plated beryllium copper female contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR

GHz	VSWR
DC – 8.0	1.20
8.0 – 12.4	1.25
12.4 – 18.0	1.35

Weight: (Max)

Type N	0.18 kg/ 6 oz.
SMA	0.12 kg/ 4 oz.

Physical Dimensions:

Length:

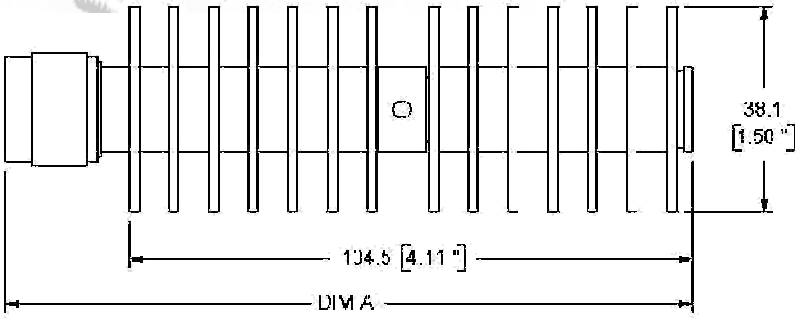
Connector	Dimension A
Type N male	81.53 (3.21)
Type N female	82.30 (3.24)
SMA male	87.38 (3.44)
SMA female	84.07 (3.31)

Diameter: 41.40 (1.63)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1447

DC –18.0 GHz 50 WATTS



Features

Type N or SMA stainless steel M or F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-3933 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 50W CW/ 1 KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 10 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connector. Gold plated beryllium copper female contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 8.0	1.20
8.0 – 12.4	1.25
12.4 – 18.0	1.35

Weight: (Max)

Type N	0.18 kg/ 6 oz
SMA	0.12 kg/ 4 oz

Physical Dimensions:

Length:

Connector	Dimension A
Type N male	128.3 (5.05)
Type N female	121.9 (4.80)
SMA male	118.1 (4.65)
SMA female	116.9 (4.60)

Diameter: 38.1 (1.50)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1448

DC – 18.0 GHz **100 WATTS**

Features

Type N or SMA stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-39030 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 18.0 GHz

Power Rating: 100 watt maximum rated average power to 25°C ambient temperature, mounted horizontally, de-rated linearly to 10 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper contacts or passivated stainless steel male contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N Male	.32 kg/ 11.0 oz
Type N Female	.31 kg/ 10.7 oz
SMA Male	.26 kg/ 9.0 oz
SMA Female	.26 kg/ 9.0 oz

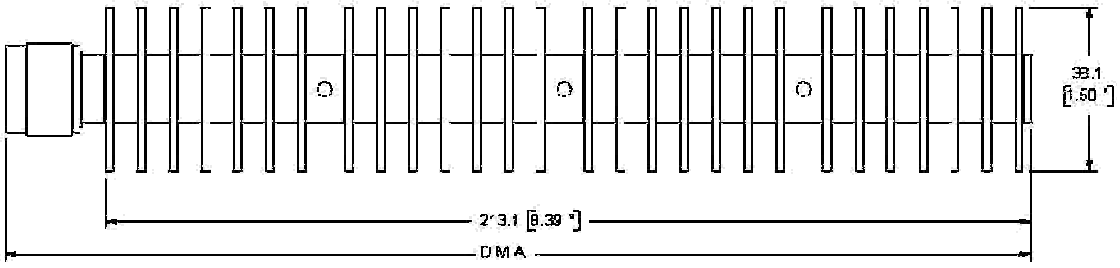
Physical Dimensions:

Connector	Dimension "A"
Type N Male	236.3 (9.30)
Type N Female	231.2 (9.10)
SMA Male	228.6 (9.00)
SMA Female	227.3 (8.95)

Maximum VSWR:

Frequency (GHz)	VSWR	
	Type N	SMA
DC – 8.0	1.25	1.25
8.0 – 12.4	1.30	1.35
12.4 – 18.0	1.45	1.45

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.



WEINSCHEL ASSOCIATES

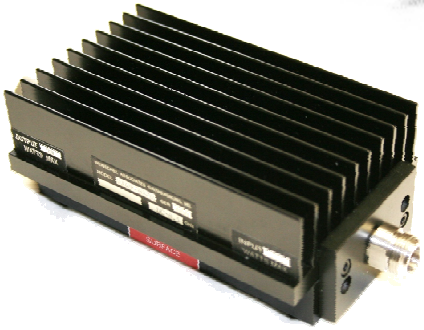
TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

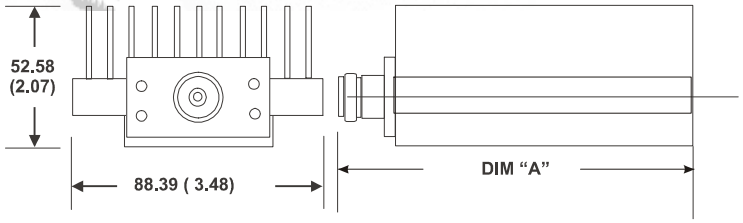
WEB: http://www.WeinschelAssociates.com

EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1449

DC – 8.5 GHz 150 WATTS





Features

Type N, SMA, or DIN 7/16 stainless steel connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-A-39030 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -8.5 GHz

Power Rating: 150 watt CW/ 5KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 15 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper or stainless steel contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.25
4.0 – 8.5	1.35

Weight: 1.41 kg/ 3.1 lbs

Length: 151.13 (5.95) type N female
159.25 (6.27) type N male

Width: 88.39 (3.48)

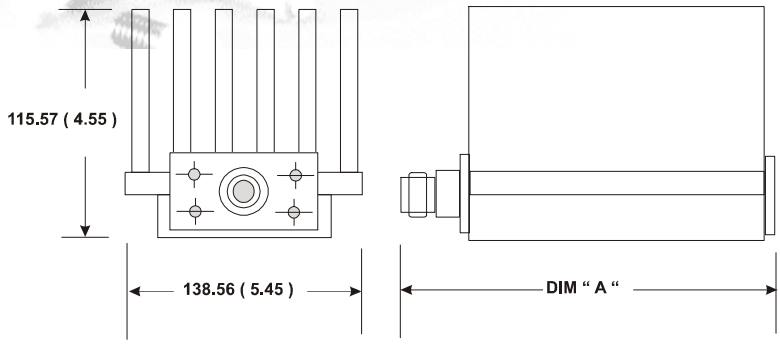
Height: 52.58 (2.07)

Note: Dimensions are given in mm (inches) and are maximum ± .05 in., unless otherwise specified.

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1451

DC – 8.5 GHz 500 WATTS



Features

Stainless Steel Type N, or 7/16 DIN connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Useable to 10 GHz.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Operation: Horizontal or Vertical

Power Rating: 500 watt maximum rated average power to 25°C ambient temperature, mounted horizontally, de-rated linearly to 50 watts at 125°C, 5 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Maximum VSWR:

Frequency (GHz)	VSWR
DC - 4.0	1.25
4.0 – 8.5	1.35

Temperature Range: -55°C to +125°C.

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper or passivated stainless steel contacts.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	3.64 Kg/ 8 lbs.
DIN 7/16	3.72 Kg/8.2 lbs.

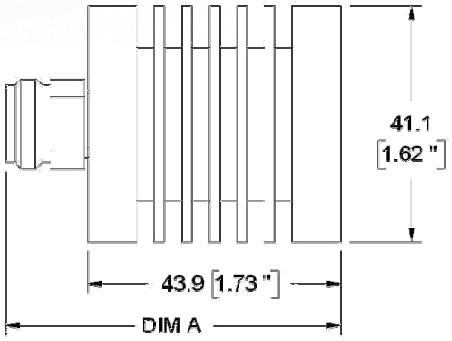
Physical Dimensions:

Connector	Dimension "A"
Type N Male	281.94 (11.10)
Type N Female	273.81 (10.78)
7/16 DIN Female	291 (11.6)
7/16 DIN Male	311 (12.3)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1452

DC – 4.0 GHz 25 WATTS



Features

Type N, SMA, and 7/16 DIN stainless steel male/ female connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Power Rating: 25 watts average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 1.5 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contact.

Maximum VSWR:

GHz	VSWR
DC - 2.0	1.10
2.0 – 4.0	1.20

Weight: .17 kg/ 6 oz

Physical Dimensions:

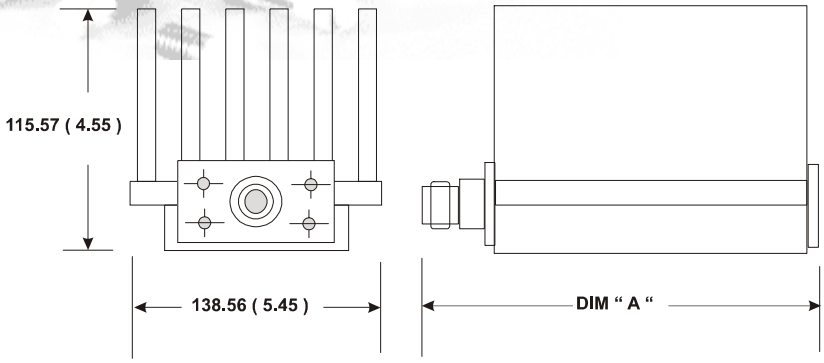
Length: DIM "A"

Connector Type	Dlimension "A"
Type N Female -3 Type N Male -4	60.99 (2.4) 68.57 (2.7)
SMA Female -1 SMA Male -2	58.43 (2.3) 60.99 (2.4)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1453

DC – 2.5 GHz 500 WATTS



Features

Stainless Steel Type N or 7/16 DIN connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 2.5 GHz

Operation: Horizontal or Vertical

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.5	1.10

Power Rating: 500 watt maximum rated average power to 25°C ambient temperature, mounted horizontally, de-rated linearly to 50 watts at 125°C, 10 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper contacts or passivated stainless steel male contacts.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	3.64 Kg/ 8 lbs.
7/16 DIN	3.72 Kg/8.2 lbs.

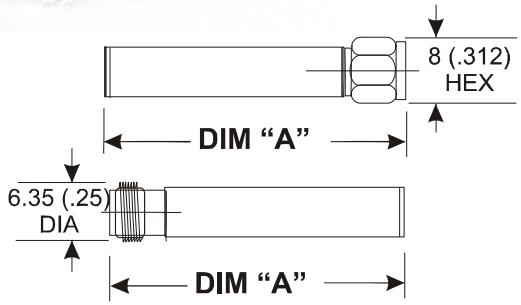
Physical Dimensions:

Connector	Dimension "A"
Type N Male	281.94 (11.10)
Type N Female	273.81 (10.78)
7/16 DIN Female	291 (11.6)
7/16 DIN Male	311 (12.3)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1454

DC – 40.0 GHz 2 WATTS



Features

Type 2.92 mm connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012 connectors. Designed to meet MIL-A-39030 environmental specifications.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -40 GHz

Power Rating: 2 watts average, 200 watts peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 0.1 watts at +85° C.

Temperature Range: -55°C to +100°C

Maximum VSWR:

Frequency GHz	VSWR
DC – 26.5	1.25
26.5 – 40.0	1.45

Construction: Passivated stainless steel body and connectors. Gold plated beryllium copper contacts.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight: 4.9 gm/ .18 oz

Physical Dimensions:

Connector Type	Dimension A
2.92 mm Female -1 2.92 mm Male -2	24.9 (0.98) 25.4 (1.00)

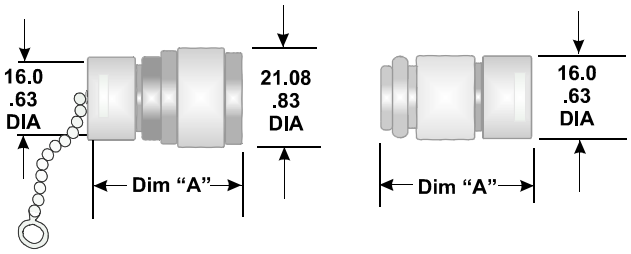
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1455

DC – 6.0 GHz WA1455/6
DC – 12.4 GHz WA1455/12
DC – 18.0 GHz WA1455/18

2 WATT



Features

Type N male (-4) or female (-3) or type TNC male (-6) or female (-5) connector per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Excellent VSWR repeatability. Available with and without chain.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: WA1455/6 DC – 6.0 GHz
WA1455/12 DC – 12.4 GHz
WA1455/18 DC – 18.0 GHz

Power Rating: 2 watts average, 1 kilowatt peak (maximum rated average power to 25° C ambient temperature, de-rated linearly to 1.0 watts at 125° C.

Temperature Range: -55°C to +125°C.

Maximum VSWR:

Frequency GHz	VSWR (N-TYPE)	VSWR (TNC)
DC – 8.0	1.10	1.10
8.0 – 12.4	1.15	1.15
12.4 – 18.0	1.20	1.25

Construction: Passivated stainless steel body and connectors. Stainless steel male contact.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight: 110.0 gm/ 4 oz.

Physical Dimensions:

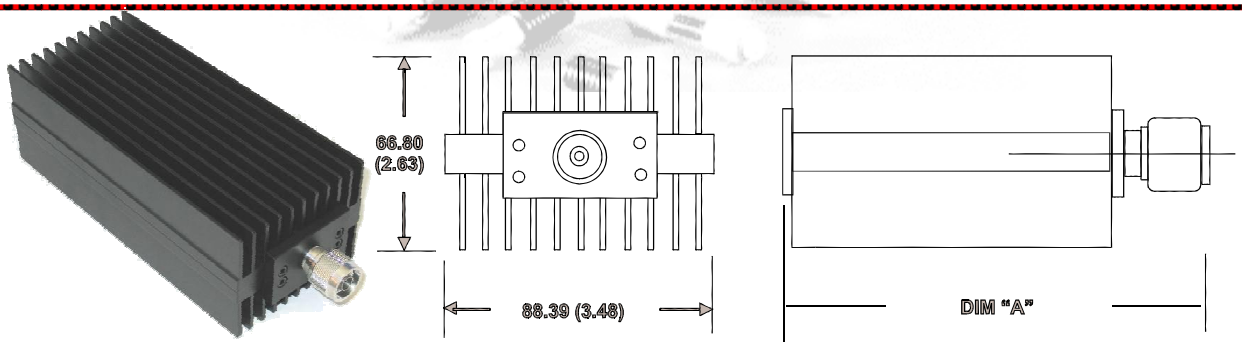
Length:

Model	Dimension A
WA1455-3	28.89 (1.14)
WA1455-4	32.89 (1.29)
WA1455-5	34.29 (1.35)
WA1455-6	35.56 (1.40)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION MODEL WA1458

DC – 5.0 GHz 250 WATTS



Features

Type N, SMA, or DIN 7/16 connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-39030 environmental specification.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 5.0 GHz

Power Rating: 250 watt CW/ 10KW peak. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 25 watts at 125°C. 10 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connector. Gold plated beryllium copper female contact. Stainless steel male contact.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 2.5	1.10
2.5 – 5.0	1.20

Weight: 1.5 kg / 3.5 lbs.

Connectors: Type N; stainless steel connectors per MIL-STD-348 Interface dimension mate nondestructively with MIL-PRF-39012 connectors.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Dimension A: 212.1 (8.35)

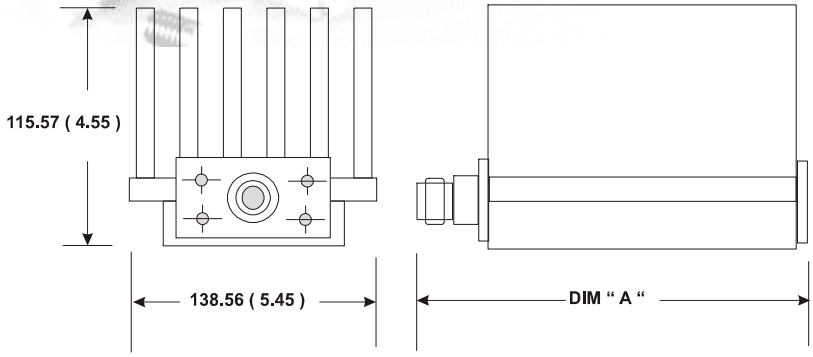
Height: 66.8 (2.63)

Width: 88.4 (3.48)

Note: Dimensions are given in mm (inched). Dimensions are maximum unless otherwise specified.

TERMINATION MODEL WA1460

DC – 5.0 GHz 500 WATTS



Features

Stainless Steel Type N or 7/16 DIN connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 5.0 GHz

Operation: Horizontal or Vertical

Maximum VSWR:

DC - 2.0 GHz: 1.15
2.0 - 5.0 GHz: 1.25

Power Rating: 500 watt maximum rated average power to 25°C ambient temperature, mounted horizontally, de-rated linearly to 50 watts at 125°C, 10 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Temperature Range: -55°C to +125°C

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper contacts or passivated stainless steel male contacts.

Weight:

Type N	3.64 Kg/ 8 lbs.
7/16 DIN	3.72 Kg/8.2 lbs.

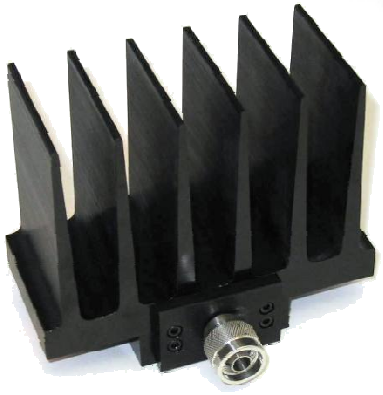
Physical Dimensions: N Type Connector

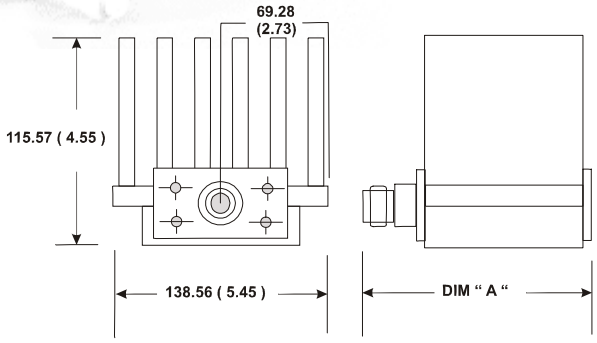
Connector	Dimension "A"
Type N Male (-4)	281.94 (11.10)
Type N Female (-3)	273.81 (10.78)
DIN 7/16 DIN Female (-8)	291 (11.6)
DIN 7/16 DIN Male (-9)	311 (12.3)
4.1F	279 (11.0)
4.1M	290 (11.4)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL WA1465

DC – 2.5 GHz 150 WATTS





Features

Stainless Steel Type N or 7/16 DIN M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC – 2.5 GHz

Operation: Horizontal or Vertical

Maximum VSWR: 1.20

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Power Rating: 150 watt maximum rated average power to 25°C ambient temperature, mounted horizontally or vertically, (*with unobstructed air flow for natural convection cooling*) de-rated linearly to 0 watts at 125°C, 10 kilowatt peak (5 µsec pulse width; .75% duty cycle).

Temperature Range: Full power from -55°C to 100°C, Case temperature. -55°C to 125°C

Construction: Passivated stainless steel connectors with black fined aluminum body. Gold plated beryllium copper female contacts or passivated stainless steel male contacts.

Weight:

Type N	.91 Kg/ 2 lbs.
7/16 DIN	1.0 Kg/ 2.2 lbs.

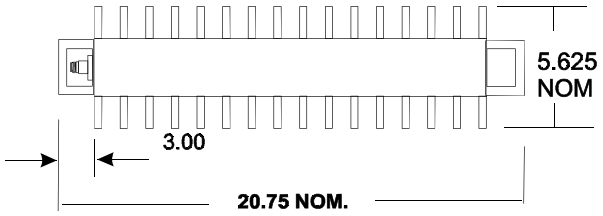
Physical Dimensions: Connector Options

Connector	Dimension "A"
Type N Male (-4) Type N Female (-3)	96.6 (3.8) 88.9 (3.5)

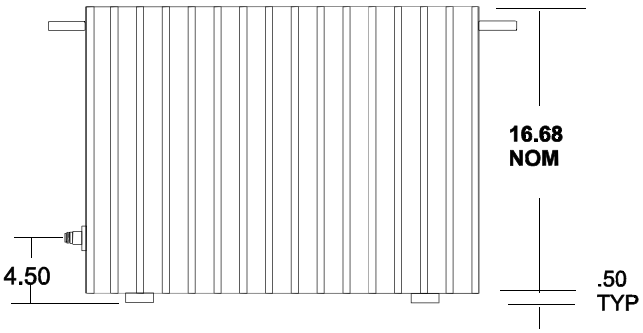
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified

TERMINATION MODEL 1470

DC – 3.0 1000 WATTS



WA1470 Termination



Features

Designed to meet environmental requirements of MIL-D-39030.

High quality type N connectors

Natural convection cooling, No oil filling (*Air flow should not be obstructed around unit*)

Specifications

NOMINAL IMPEDANCE: 50 Ω

OPERATING POSITION: Horizontal; reduce 15% for vertical

CALIBRATION: VSWR performed across frequency range. Calibration test data available at additional cost.

MAXIMUM VSWR: 1.35

POWER RATING: 1,000 watts average
To 25° C ambient temperature, de-rated linearly to 100 watts @ 125° C; 10 kilowatt peak.

TEMPERATURE: -55° C to +125° C

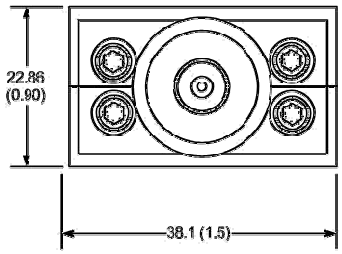
CONNECTORS: Type N stainless steel mate nondestructively with MIL-PRF-39012 connector or 7/16 connector, conforms to DIN 47223, IEC 169-4, VG 95250, CECC 22190

DIMENSIONS

Length	527 mm/ 20.75in nom.
Width	143 mm/ 5.625 in nom.
Height	437 mm/ 17.20 in max
Weight	20.41 kg/ 45 lbs

TERMINATION MODEL WA1471
Low-Profile Mountable

DC – 4.0 GHz **50 WATTS**



Features

Designed to comply with MIL-A-3933. Conductive Cooling.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 4.0 GHz

Temperature Range: -55°C to 125°C

Power: 50W CW average, 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle) with case temperature held to +100°C maximum using conductive heat sink.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Connectors: Type N, SMA, or DIN 7/16 stainless steel M/F connectors per MIL-STD-3448A, interface dimensions mate nondestructively with MIL-PRF-39012.

Construction: Aluminum alloy body with passivated stainless steel connectors.

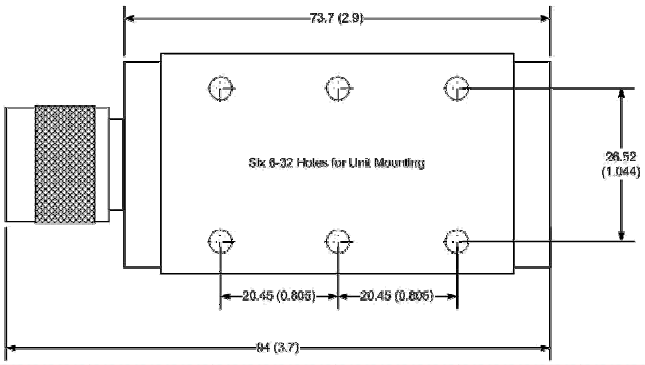
Maximum VSWR: 1.20

Physical Dimensions:

Connector Type	Length
Type N Female –3 Type N Male –4	108.0 (4.25)
SMA Female –1 SMA Male –2	120.65 (4.75)

Weight: .14 kg/5 oz.

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

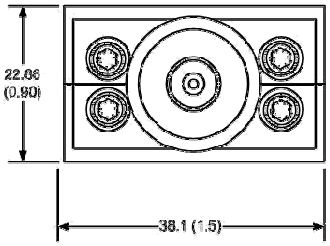


WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1472
Low-Profile Mountable

DC – 8.5 GHz **50 WATTS**



Features

Designed to comply with MIL-A-3933. Conductive Cooling

Connectors: Type N, SMA, or DIN 7/16 stainless steel M/F connectors per MIL-STD-3448A, interface dimensions mate nondestructively with MIL-PRF-39012.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Physical Dimensions:

Connector Type	Length
Type N Female –3 Type N Male –4	108.0 (4.25)
SMA Female –1 SMA Male –2	120.65 (4.75)

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 8.5 GHz

Maximum VSWR: 1.30

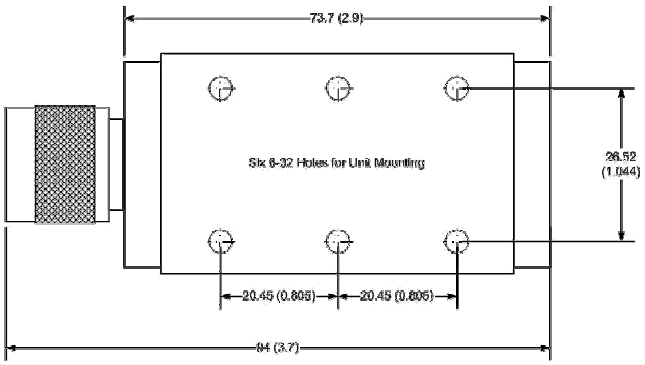
Power: 50W CW average, 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle) with case temperature held to +100°C maximum using conductive heat sink.

Temperature Range: -55°C to 125°C

Weight: .14 kg/5 oz.

Construction: Aluminum alloy body with passivated stainless steel connectors.

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

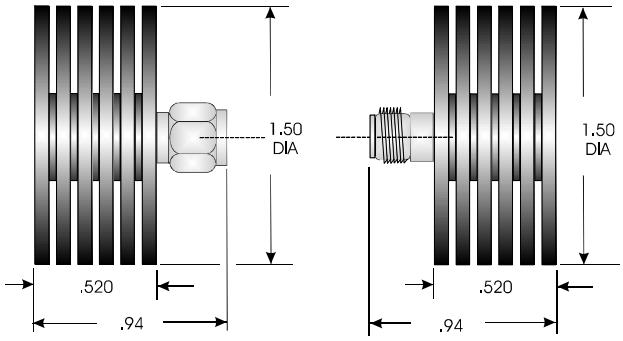


WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1475

DC – 40.0 GHz 5 WATTS



Model WA1475 shown with model WA54 attenuator

Features

- **Compact Construction –** Lowest size/power ratio.
- **Precision 2.92mm connectors.**
- **Flat Response.**

Specifications

Nominal Impedance: 50 Ohms

Frequency Range: DC to 40.0 GHz

Power Rating (mounted horizontally): 5 watts average **(bi-directional)** to 25°C ambient temperature, de-rated linearly to 0.5 Watt @ 125°C. 200 watts peak (5 µsec pulse width; 1.25% duty cycle).

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Temperature Range: -55°C to 125°C

Connectors: 2.92mm (Male/Female) connectors mate nondestructively with SMA per MIL-PRF-39012, 3.5mm and other 2.92mm connectors.

Construction: Stainless steel connector body with gold plated beryllium copper contacts.

Weight: 200g (7.0 oz.) maximum

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 18.0	1.20
18.0 - 40.0	1.35

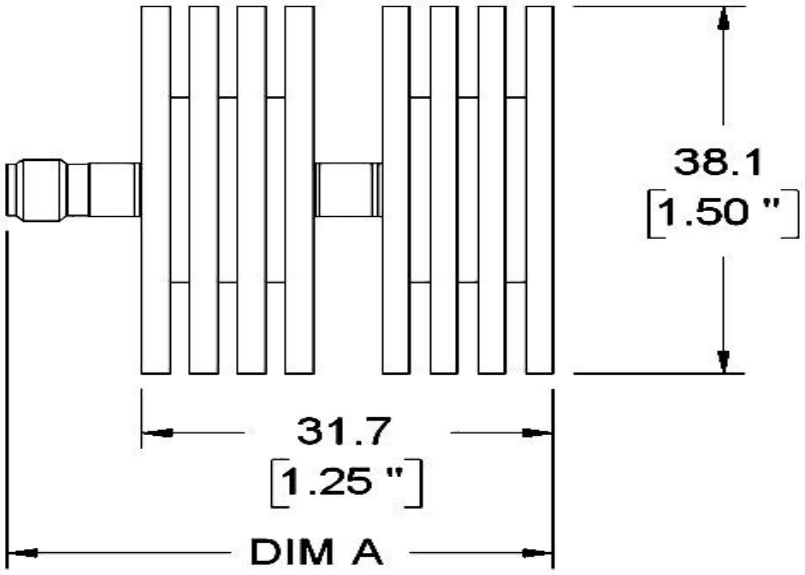
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

TERMINATION
High Frequency

MODEL WA1476

DC – 40.0 GHz

10 WATTS



Features

► **Compact Construction –** Lowest size/power ratio.

► **Precision 2.92mm connectors.**

► **Flat Response.**

Specifications

Nominal Impedance: 50 Ohms

Frequency Range: DC to 40.0 GHz

Power Rating (mounted horizontally): 10 watts average to 25°C ambient temperature, de-rated linearly to 0.5 Watt @ 125°C. 200 watts peak (5 µsec pulse width; 1.25% duty cycle).

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Temperature Range: -55°C to 125°C

Connectors: 2.92mm (Male/Female) connectors mate nondestructively with SMA per MIL-PRF-39012, 3.5mm and other 2.92mm connectors.

Construction: Stainless steel connector body with gold plated beryllium copper contacts.

Weight: **145**g (5oz.) maximum

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 18.0	1.25
18.0 – 40.0	1.40

Note: Dimensions are given in mm (inches) and are maximum, Unless otherwise specified.

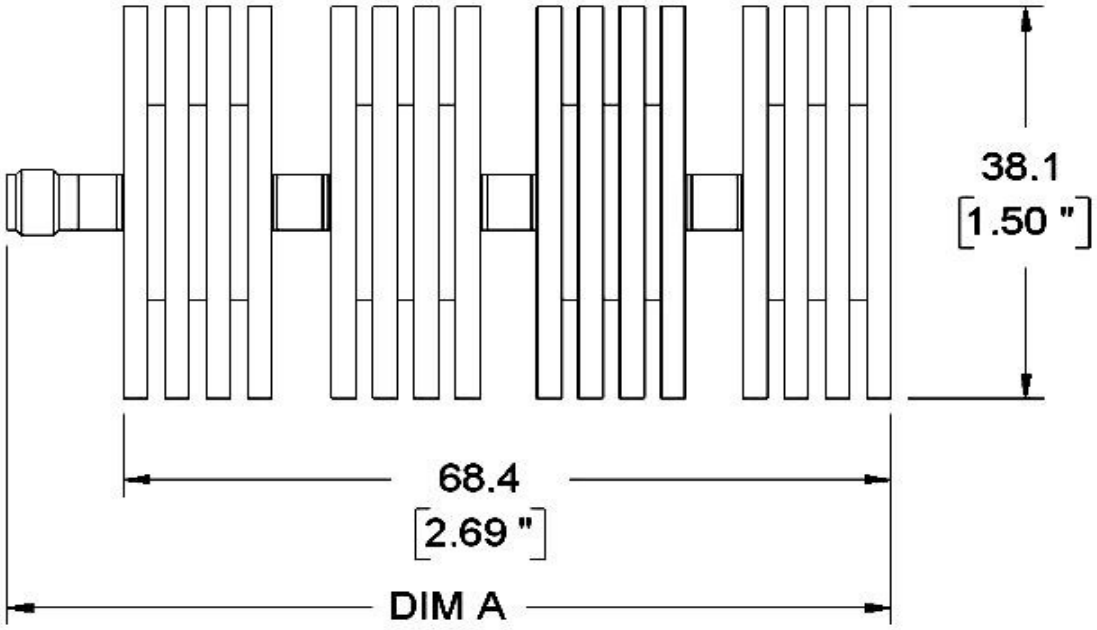
TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION
High Frequency

MODEL WA1489

DC – 40.0 GHz

20 WATTS



Features

► **Compact Construction –** Lowest size/power ratio.

► **Precision 2.92mm connectors.**

► **Flat Response.**

Specifications

Nominal Impedance: 50 Ohms

Frequency Range: DC to 40.0 GHz

Power Rating (mounted horizontally): 20 watts average to 25°C ambient temperature, de-rated linearly to 0.5 Watt @ 125°C. 200 watts peak (5 µsec pulse width; 1.25% duty cycle).

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Temperature Range: -55°C to 125°C

Connectors: 2.92mm (Male/Female) connectors mate nondestructively with SMA per MIL-PRF-39012, 3.5mm and other 2.92mm connectors.

Construction: Stainless steel connector body with gold plated beryllium copper contacts.

Weight: 200g (7oz.) maximum

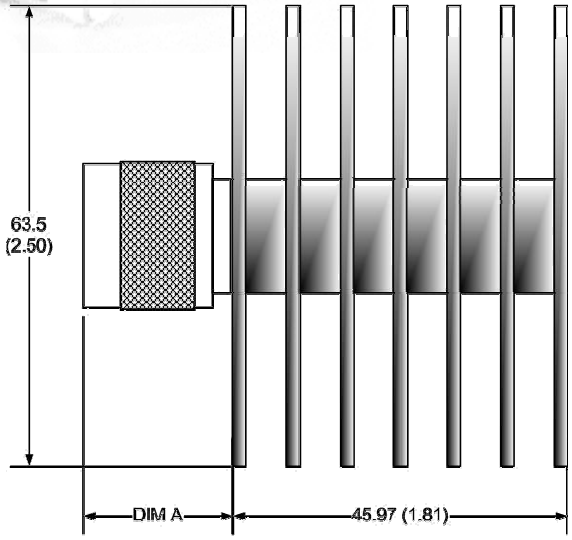
Maximum VSWR:

Frequency (GHz)	VSWR
DC – 18.0	1.25
18.0 – 40.0	1.40

Note: Dimensions are given in mm (inches) and are maximum, Unless otherwise specified.

TERMINATION MODEL WA1490
High Power-High Frequency

DC – 18.0 GHz 50 WATTS



Features

Designed to meet MIL-A-39030 environmental specifications.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 50W CW/ 1 KW peak to 25°C ambient temperature, de-rated linearly to 10 watts at 125°C, 1 kilowatt peak (5 µsec pulse width; 2.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 8.0	1.15
8.0 – 12.4	1.20
12.4 – 18.0	1.30

Connectors: Type N or SMA stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

* Note: TNC connector available upon request.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	1.18 kg/ 4.1 oz.
SMA	1.25 kg/ 4.3 oz.

Physical Dimensions:

Length:

Connector	Dimension A
Type N (-3, -4)	24.1 (0.95)
SMA (-1, -2)	30.1 (1.23)

Diameter: **63.50 (2.50)**

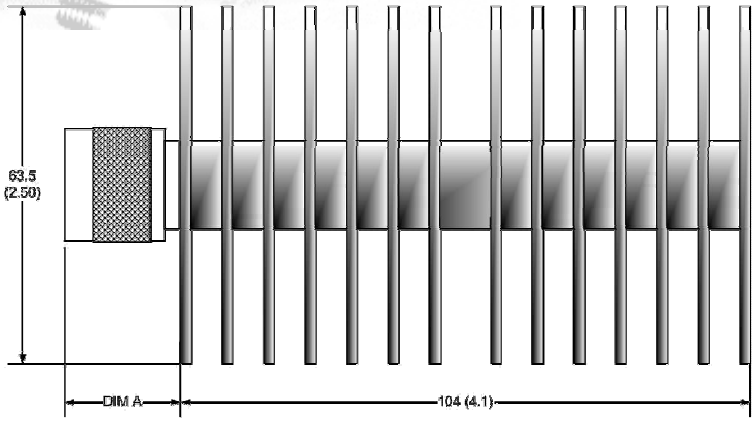
Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.

WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640
WEB: http://www.WeinschelAssociates.com
EMAIL: sales@WeinschelAssociates.com

TERMINATION MODEL WA1491
High Power-High Frequency

DC – 18.0 GHz 100 WATTS



Features

Designed to meet MIL-A-39030 environmental specifications.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC -18.0 GHz

Power Rating: 100W CW/ 1 KW peak to 25°C ambient temperature, de-rated linearly to 10 watts at 125°C, 1 kilowatt peak (5 µsec pulse width; 2.5% duty cycle).

Temperature Range: -55°C to +125°C

Construction: Black finned aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper contacts.

Maximum VSWR:

Frequency (GHz)	VSWR
DC – 8.0	1.20
8.0 – 12.4	1.25
12.4 – 18.0	1.35

Connectors: Type N or SMA stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

* Note: TNC connector available upon request.

Calibration: VSWR performed across frequency range. Calibration test data available at additional cost.

Weight:

Type N	1.18 kg/ 4.1 oz.
SMA	1.25 kg/ 4.3 oz.

Physical Dimensions:

Length:

Connector	Dimension A
Type N (-3, -4)	24.1 (0.95)
SMA (-1, -2)	30.1 (1.23)

Diameter: 63.50 (2.50)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified.