

PRECISION RF ADAPTERS

IN-SERIES AND BETWEEN SERIES

DC - 50.0 GHz

In-Series Precision RF Adapters					
Model Number	Connectors	Frequency Range DC - (GHz)	VSWR (max)	Insertion Loss (dB, max)	Page No.
WA1513-33	N (f) - N (f)	18	1.15	0.25	141
WA1513-44	N (m) - N (m)	18	1.15	0.25	141
WA1513-34	N (f) - N (m)	18	1.15	0.25	141
WA1587-11	SMA (f) - SMA (f)	26.5	1.2	0.5	143
WA1587-12	SMA (f) - SMA (m)	26.5	1.2	0.5	143
WA1587-22	SMA (m) - SMA (m)	26.5	1.2	0.5	143
WA7003-11	3.5mm (f,f)	33	1.15	0.5	145
WA7003-12	3.5mm (f,m)	33	1.15	0.5	145
WA7003-22	3.5mm (m,m)	33	1.15	0.5	145
WA7004-11	2.92mm (f,f)	40	1.20	0.6	146
WA7004-12	2.92mm (f,m)	40	1.20	0.6	146
WA7004-22	2.92mm (m,m)	40	1.20	0.6	146
WA7005-11	2.4mm (f,f)	50	1.20	0.6	147
WA7005-12	2.4mm (f,m)	50	1.20	0.6	147
WA7005-22	2.4mm (m,m)	50	1.20	0.6	147

Between-Series Precision RF Adapters					
Model Number	Connectors	Frequency Range DC - (GHz)	VSWR (max)	Insertion Loss (dB, max)	Page No.
WA1548-13	SMA (f) - N (f)	18	1.10	0.43	142
WA1548-14	SMA (f) - N (m)	18	1.10	0.43	142
WA1548-23	SMA (m) - N (f)	18	1.10	0.43	142
WA1548-24	SMA (m) - N (m)	18	1.10	0.43	142
WA7002-13	SMA (f) - N (f)	18	1.12	0.5	144
WA7002-14	SMA (f) - N (m)	18	1.12	0.5	144
WA7002-23	SMA (m) - N (f)	18	1.12	0.5	144
WA7002-24	SMA (m) - N (m)	18	1.12	0.5	144
WA7006-11	2.92mm (f) - 2.4mm (f)	40	1.20	0.6	148
WA7006-12	2.92mm (f) - 2.4mm (m)	40	1.20	0.6	148
WA7006-21	2.92mm (m) - 2.4mm (f)	40	1.20	0.6	148
WA7006-22	2.92mm (m) - 2.4mm (m)	40	1.20	0.6	148



WEINSCHTEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

140

Specification
Subject to change
without notice

Precision Coaxial Adapter

MODEL WA1513

DC – 18.0 GHz

Type N to Type N



Physical Dimensions:

Specifications

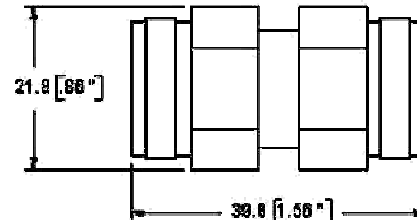
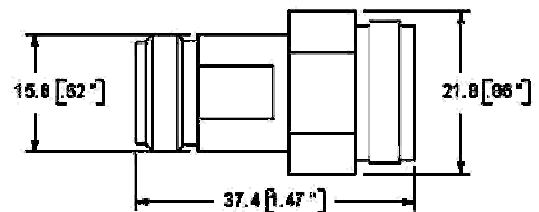
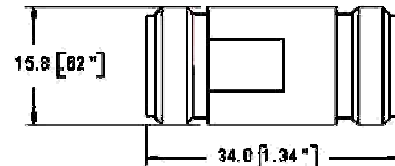
Nominal Impedance: 50 ohms

Frequency Range: DC - 18.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel bodies, gold-plated beryllium copper contacts.

Connectors: Type N per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.



Maximum VSWR	
Frequency (GHz)	VSWR
DC - 18.0	1.15

Weight:	WA1513-33	40g (1.4 oz)
	WA1513-44	49g (1.7 oz)
	WA1513-34	46g (1.6 oz)

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 18.0	0.25	0.02



WEINSCHTEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

141

Specification
Subject to change
without notice

Precision Coaxial Adapter

MODEL WA1548

DC – 18.0 GHz

Type SMA to Type N



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 18.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel bodies, beryllium copper with gold plated female contacts, stainless steel male contacts.

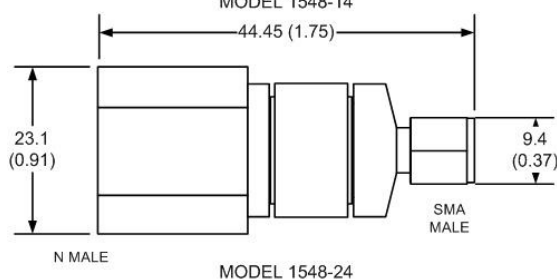
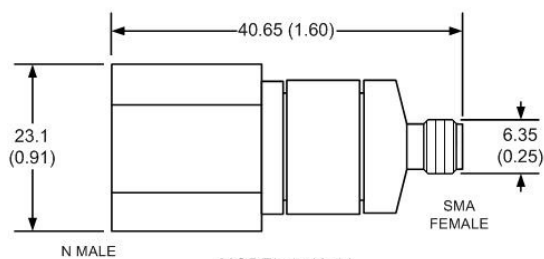
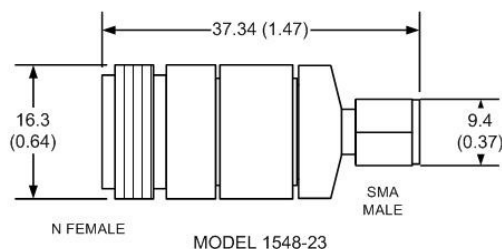
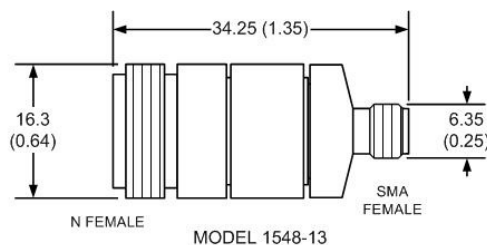
Connectors: Types N and SMA per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors. Coupling Torque 14 in-lbs for N-Type and 8 in-lbs for SMA.

Weight: 49g (1.72 oz), max

Maximum VSWR	
Frequency (GHz)	VSWR
DC - 18.0	1.10 per adapter

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.40	0.01
12.4 - 18.0	0.43	0.02

Physical Dimensions:



WEINSCHTEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

142

Specification
Subject to change
without notice

Precision Coaxial Adapter

MODEL WA1587

DC – 26.5 GHz

SMA to SMA



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 26.5 GHz

Temperature Range: -55°C to +125°C

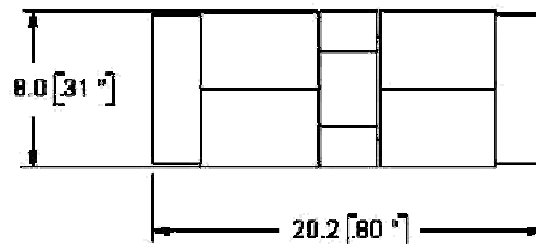
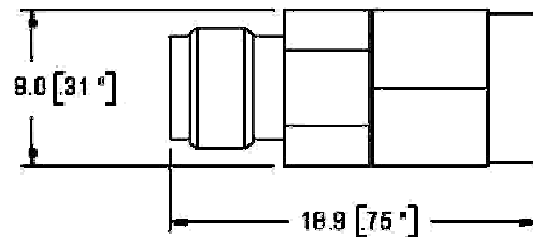
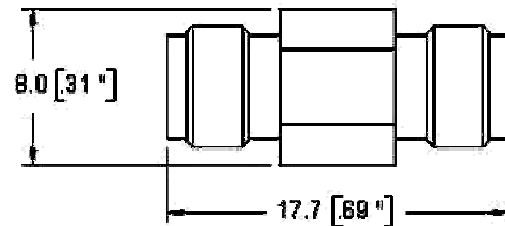
Construction: Stainless Steel body, gold-plated beryllium copper contacts.

Connectors: SMA connectors per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight:

WA1587-11	3.5g (0.11 oz)
WA1587-12	4.6g (0.16 oz)
WA1587-22	5.4g (0.19 oz)

Physical Dimensions:



Maximum VSWR	
Frequency (GHz)	VSWR
DC - 26.5	1.15

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.30	0.01
12.4 - 18.0	0.40	0.02
18.0 - 26.5	0.50	0.02



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

143

Specification
Subject to change
without notice

Precision Coaxial Adapter

MODEL WA7002

DC – 18.0 GHz

Type SMA to Type N



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 18.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel bodies, beryllium copper with gold plated female contacts, stainless steel male contacts.

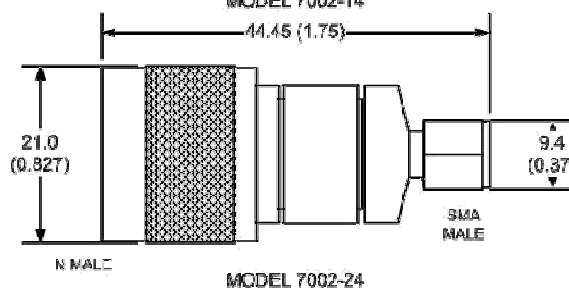
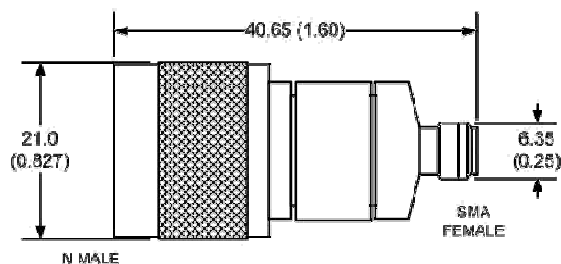
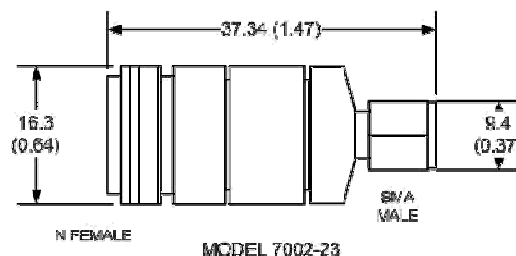
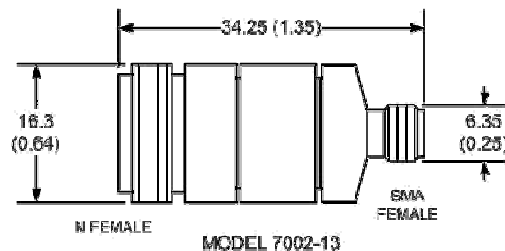
Connectors: Types N and SMA per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight: 49g (1.72 oz), max

Maximum VSWR	
Frequency (GHz)	VSWR
DC - 18.0	1.15 per adapter

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.40	0.01
12.4 - 18.0	0.50	0.02

Physical Dimensions:



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

144

Specification
Subject to change
without notice

Precision Coaxial Adapter

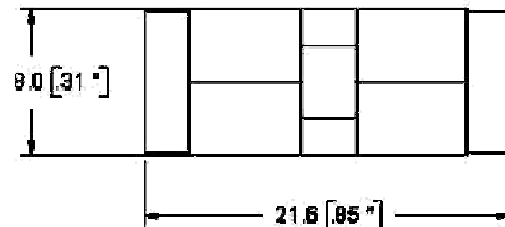
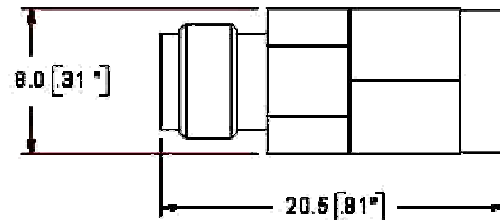
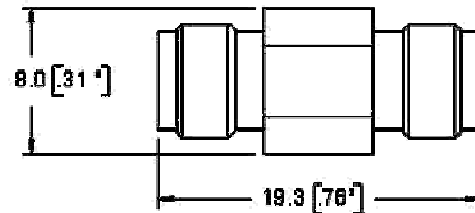
MODEL WA7003

DC – 33.0 GHz

3.5mm to 3.5mm



Physical Dimensions:



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 33.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel body, gold-plated beryllium copper contacts.

Connectors: 3.5mm connectors per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight:

WA7003-11	3.5g (0.11 oz)
WA7003-12	4.6g (0.16 oz)
WA7003-22	5.4g (0.19 oz)

Maximum VSWR	
Frequency (GHz)	VSWR
DC - 33.0	1.15

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.30	0.01
12.4 - 18.0	0.40	0.02
18.0 - 33.0	0.50	0.02



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

145

Specification
Subject to change
without notice

Precision Coaxial Adapter

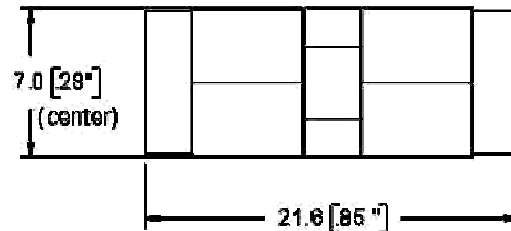
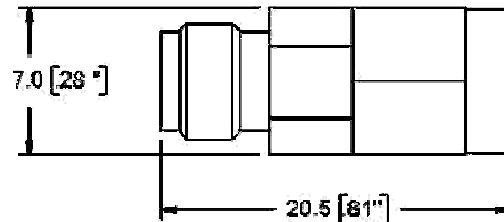
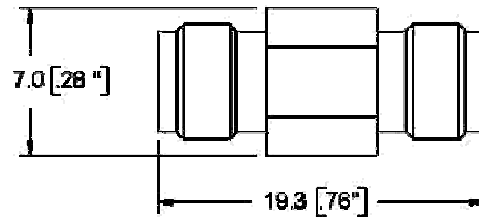
MODEL WA7004

DC – 40.0 GHz

2.92mm to 2.92mm



Physical Dimensions:



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 40.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel body, gold-plated beryllium copper contacts.

Connectors: 2.92mm connectors per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight:

WA7004-11	3.5g (0.11 oz)
WA7004-12	4.6g (0.16 oz)
WA7004-22	5.4g (0.19 oz)

Maximum VSWR	
Frequency (GHz)	VSWR
DC - 40.0	1.20

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.30	0.01
12.4 - 18.0	0.40	0.02
18.0 - 40.0	0.60	0.05



WEINSCHTEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

146

Specification
Subject to change
without notice

Precision Coaxial Adapter

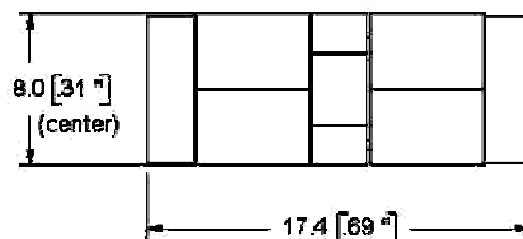
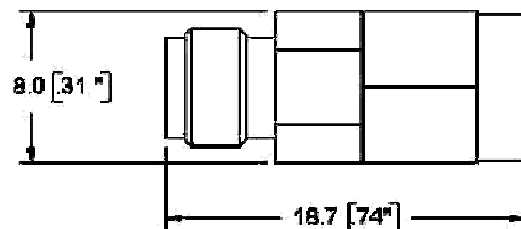
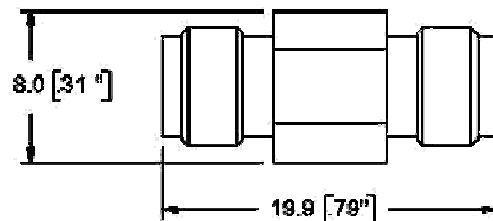
MODEL WA7005

DC – 50.0 GHz

2.4mm to 2.4mm



Physical Dimensions:



Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 50.0 GHz

Temperature Range: -55°C to +125°C

Construction: Stainless Steel body, gold-plated beryllium copper contacts.

Connectors: 2.4mm connectors per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight:

WA7005-11	3.5g (0.11 oz)
WA7005-12	4.6g (0.16 oz)
WA7005-22	5.4g (0.19 oz)

Maximum VSWR	
Frequency (GHz)	VSWR
DC - 50.0	1.20

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.30	0.01
12.4 - 18.0	0.40	0.02
18.0 - 50.0	0.60	0.05



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

147

Specification
Subject to change
without notice

Precision Coaxial Adapter

MODEL WA7006

DC – 40.0 GHz

2.92mm to 2.4mm



Physical Dimensions:

Specifications

Nominal Impedance: 50 ohms

Frequency Range: DC - 40.0 GHz

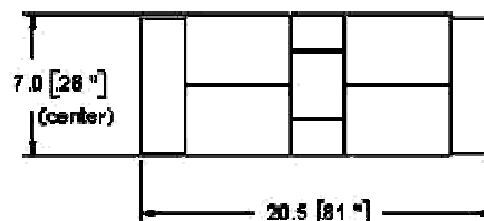
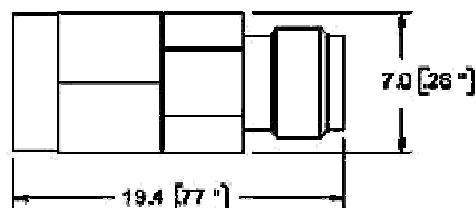
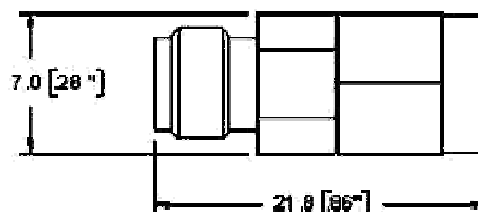
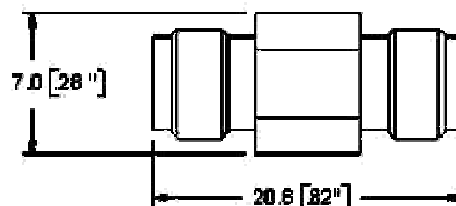
Temperature Range: -55°C to +125°C

Construction: Stainless Steel body, gold-plated beryllium copper contacts.

Connectors: 2.92mm and 2.4mm connectors per MIL-STD-348 interface dimensions mate non-destructively with MIL-PRF-39012 connectors.

Weight:

WA7006-11	3.5g (0.11 oz)
WA7006-12	4.6g (0.16 oz)
WA7006-21	4.6g (0.16 oz)
WA7006-22	5.4g (0.19 oz)



Maximum VSWR	
Frequency (GHz)	VSWR
DC - 40.0	1.20

Insertion Loss		
Frequency (GHz)	Max. Ins Loss	Repeatability
DC - 12.4	0.30	0.01
12.4 - 18.0	0.40	0.02
18.0 - 40.0	0.60	0.05



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

148

Specification
Subject to change
without notice