

CALIBRATION GRADE ADAPTERS

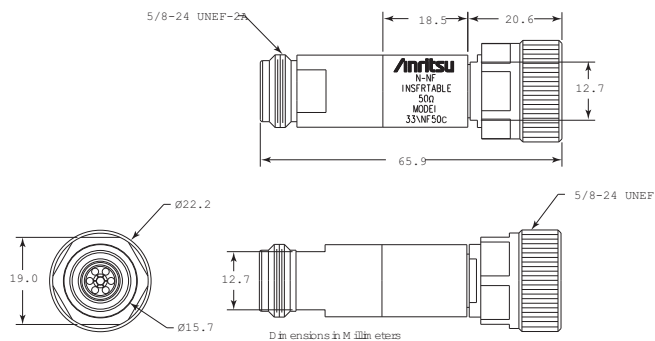
33 Series DC to 145 GHz



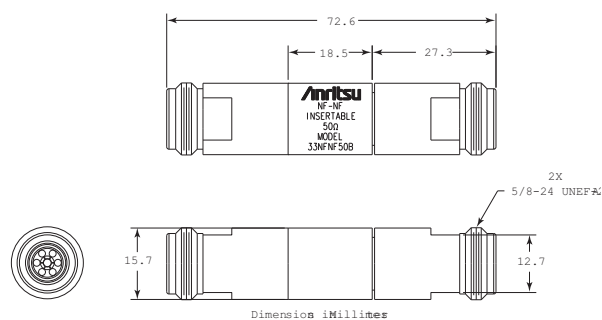
The 33 Series of precision phase equal adapters enable accurate measurements with Anritsu V Connector®, K Connector®, W1 Connector®, 0.8 mm Connector, WSMA, and Type N interfaces. Every adapter is meticulously constructed with great attention to detail and proper construction to ensure low reflections and optimum phase performance over a broad frequency range.

Features

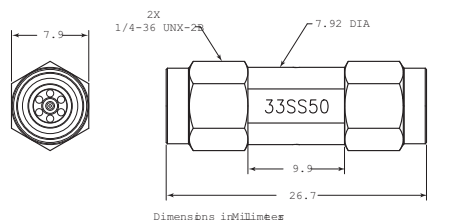
- Low SWR and insertion loss
- DC to 145 GHz, with 0.8 mm Connector interface
- DC to 110 GHz, with W1 Connector® interface
- DC to 70 GHz, with V Connector® interface
- DC to 43.5 GHz, with Extended-K Connector® interface
- 50 Ω impedance



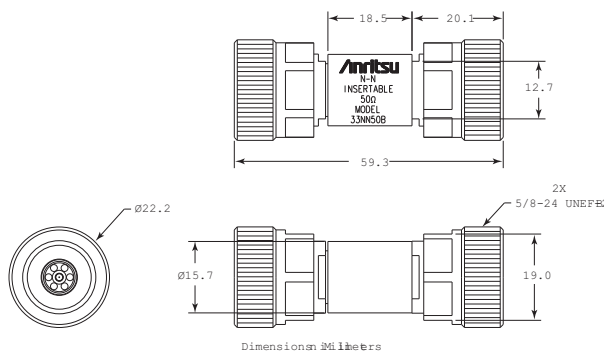
33NMF50C outline



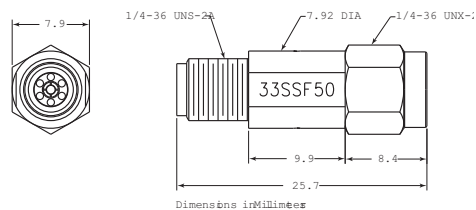
33NMF50B outline



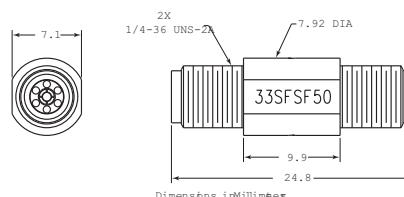
33SS50 outline



33NN50B outline



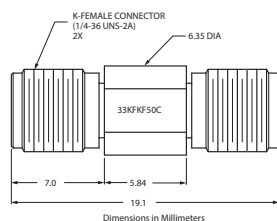
33SSF50 outline



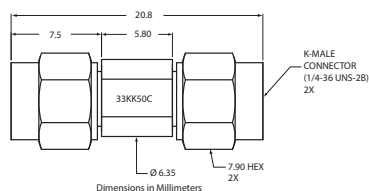
33SFSF50 outline

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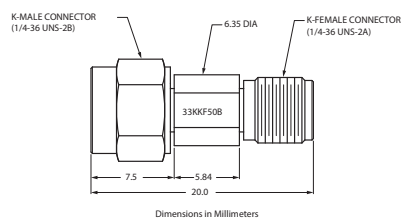
33 Series DC to 145 GHz



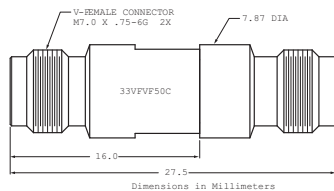
33KFKF50C outline



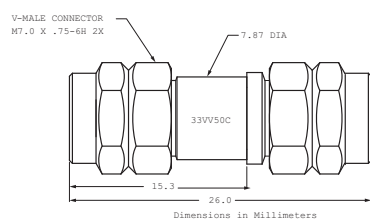
33KK50C outline



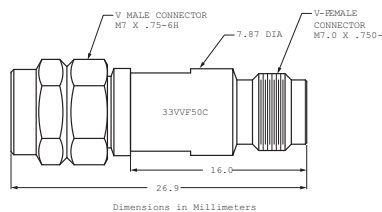
33KKF50B outline



33VVF50C outline



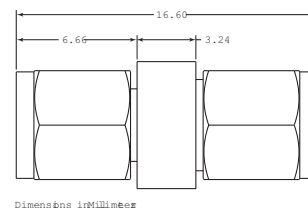
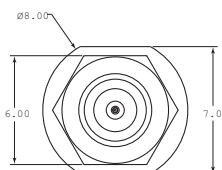
33VV50C outline



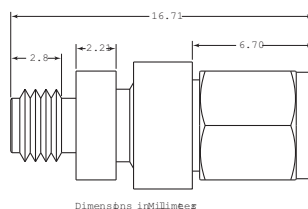
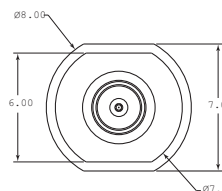
33VVF50C outline



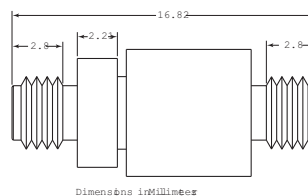
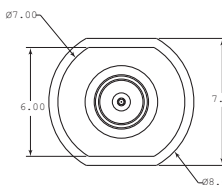
33WW50
Precision W1 Male to W1 Male Adapter,
DC to 110 GHz



33WWF50
Precision W1 Male to W1 Female Adapter,
DC to 110 GHz



33WFWF50
Precision W1 Female to W1 Female Adapter,
DC to 110 GHz



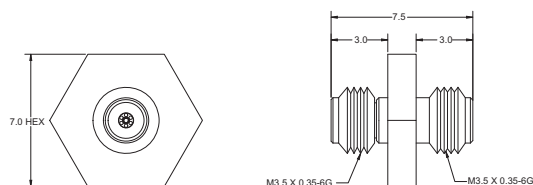
CALIBRATION GRADE ADAPTERS

33 Series DC to 145 GHz

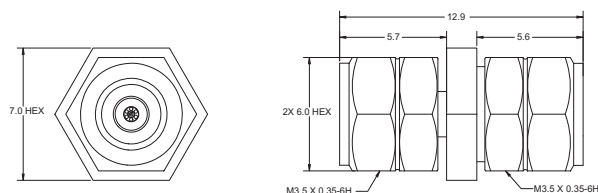


0.8 mm In-Series Adapters

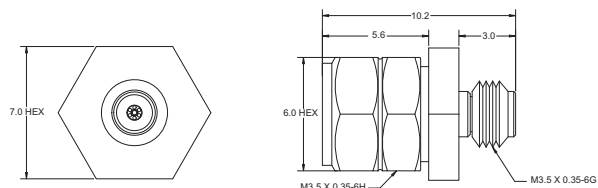
The 33 series precision 0.8 mm Adapters enable accurate measurements with Anritsu 0.8 mm connectors at a broad frequency range of up to 145 GHz. The 33 series 0.8 mm – 0.8 mm adapters are available in three connector gender configurations: (male – male), (male – female), and (female – female). 0.8 mm adapters have an air dielectric interface and a center conductor that is supported by a proprietary low-loss high temperature support bead. When used as connector savers, these adapters protect the system's test port by reducing the number of connections made directly to the test port.



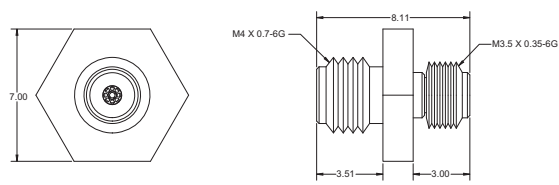
Precision 0.8 mm Female to Female Adapter (33.8F.8F50)



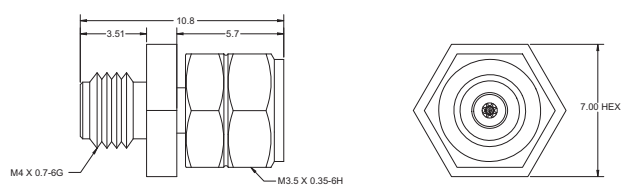
Precision 0.8 mm Male to 0.8 mm Male Adapter (33.8.850)



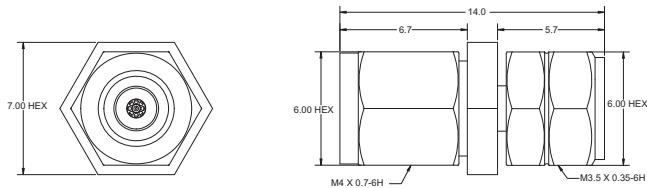
Precision 0.8 mm Male to 0.8 mm Female Adapter (33.8F.850)



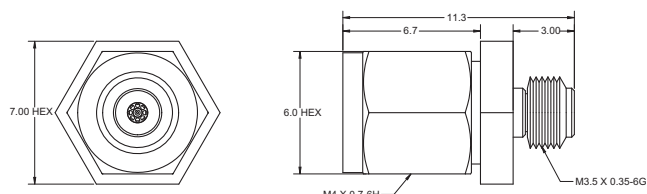
W1 Female to 0.8 mm Female Adapter (33WF.8F50)



W1 Female to 0.8 mm Male Adapter (33WF.850)



W1 Male to 0.8 mm Male Adapter (33W.850)



W1 Male to 0.8 mm Female Adapter (33W.8F50)

0.8 mm Waveguide Adapters and 0.8 mm–W1 Adapters

The precision 0.8 mm waveguide adapters transform standard WR10 and WR8 waveguide interfaces to precision coaxial 0.8 mm connector interfaces, thus enabling convenient millimeter wave coaxial measurements. Please contact Anritsu for more details on this product.

0.8 mm – W1 adapters provide an interface between 0.8 mm connectors and W1 connectors and allow connections between two different connector types. Please contact Anritsu for more details on this product. www.anritsu.com

CALIBRATION GRADE ADAPTERS

33 Series DC to 145 GHz

Specifications

Model	Frequency range (GHz)	Impedance (Ω)	Connectors	SWR
33NN50B	DC to 18	50	N(m)-N(m)	1.09
33NNF50B	DC to 18	50	N(m)-N(f)	1.09
33NFN50B	DC to 18	50	N(f)-N(f)	1.09
33SS50	DC to 26.5	50	WSMA(m)-WSMA(m)	1.08 to 18 GHz 1.12 to 26.5 GHz
33SSF50	DC to 26.5	50	WSMA(m)-WSMA(f)	1.08 to 18 GHz 1.12 to 26.5 GHz
33SFSF50	DC to 26.5	50	WSMA(f)-WSMA(f)	1.08 to 18 GHz 1.12 to 26.5 GHz
33KK50C	DC to 43.5	50	K(m)-K(m)	1.1
33KKF50C	DC to 43.5	50	K(m)-K(f)	1.1
33KFKF50c	DC to 43.5	50	K(f)-K(f)	1.1
33VV50C	DC to 70	50	V(m)-V(m)	1.33
33VVF50C	DC to 70	50	V(m)-V(f)	1.33
33VVF50C	DC to 70	50	V(f)-V(f)	1.33
33WW50	DC to 110	50	W1(m)-W1(m)	1.17 to 40 GHz 1.29 to 65 GHz 1.38 to 110 GHz
33WWF50	DC to 110	50	W1(m)-W1(f)	1.17 to 40 GHz 1.29 to 65 GHz 1.38 to 110 GHz
33WFWF50	DC to 110	50	W1(f)-W1(f)	1.17 to 40 GHz 1.29 to 65 GHz 1.38 to 110 GHz
33W.850*	DC to 110	50	W1(m)-0.8 mm(m)	1.17 to 65 GHz 1.29 to 80 GHz 1.43 to 110 GHz
33W.8F50*	DC to 110	50	W1(m)-0.8 mm(f)	1.17 to 65 GHz 1.29 to 80 GHz 1.43 to 110 GHz
33WF.850*	DC to 110	50	W1(f)-0.8 mm(m)	1.17 to 65 GHz 1.29 to 80 GHz 1.43 to 110 GHz
33WF.8F50*	DC to 110	50	W1(f)-0.8 mm(f)	1.17 to 65 GHz 1.29 to 80 GHz 1.43 to 110 GHz
33.8.850*	DC to 145	50	0.8 mm(m)-0.8 mm(m)	1.15 to 40 GHz 1.22 to 80 GHz 1.29 to 110 GHz 1.43 to 145 GHz
33.8.8F50*	DC to 145	50	0.8 mm(m)-0.8 mm(f)	1.15 to 40 GHz 1.22 to 80 GHz 1.29 to 110 GHz 1.43 to 145 GHz
33.8.F8F50*	DC to 145	50	0.8 mm(f)-0.8 mm(f)	1.15 to 40 GHz 1.22 to 80 GHz 1.29 to 110 GHz 1.43 to 145 GHz

Temperature range: -55°C to +125°C

Note: 33K series adapters have Extended-K functionality

*SWR Specifications are Typical

Electrical Length

Series	Inch	cm	picosecond
33K	0.623	1.582	52.75
33N	2.292	5.822	194.06
33S	0.855	2.172	72.39
33V B/C	0.93	2.362	78.74
33W	0.55	1.397	46.57
33.8.F50	0.318	0.808	26.93
33.8F.8F50	0.207	0.526	17.54
33.8.850	0.426	1.082	36.05
33WF.850	0.328	0.833	27.76
33WF.8F50	0.22	0.558	18.61
33W.8F50	0.351	0.893	29.75
33W.850	0.459	1.167	38.9

Ordering information

Please specify model/order number, name and quantity when ordering.

Model/Order No.	Name
	Calibration grade adapter
33NN50B	DC to 18 GHz, 50 Ω , N(m)-N(m)
33NNF50B	DC to 18 GHz, 50 Ω , N(m)-N(f)
33NFN50B	DC to 18 GHz, 50 Ω , N(f)-N(f)
33SS50	DC to 26.5 GHz, 50 Ω , WSMA(m)-WSMA(m)
33SSF50	DC to 26.5 GHz, 50 Ω , WSMA(m)-WSMA(f)
33SFSF50	DC to 26.5 GHz, 50 Ω , WSMA(f)-WSMA(f)
33KFKF50C	DC to 43.5 GHz, 50 Ω , K(f)-K(f)
33KK50C	DC to 43.5 GHz, 50 Ω , K(m)-K(m)
33KKF50C	DC to 43.5 GHz, 50 Ω , K(m)-K(f)
33VVF50C	DC to 70 GHz, 50 Ω , V(f)-V(f)
33VV50C	DC to 70 GHz, 50 Ω , V(m)-V(m)
33VVF50C	DC to 70 GHz, 50 Ω , V(m)-V(f)
33WW50	DC to 110 GHz, 50 Ω , W1(m)-W1(m)
33WWF50	DC to 110 GHz, 50 Ω , W1(m)-W1(f)
33WFWF50	DC to 110 GHz, 50 Ω , W1(f)-W1(f)
33W.850	DC to 110 GHz, 50 Ω , W1(m)-0.8 mm(m)
33W.8F50	DC to 110 GHz, 50 Ω , W1(m)-0.8 mm(f)
33WF.850	DC to 110 GHz, 50 Ω , W1(f)-0.8 mm(m)
33WF.8F50	DC to 110 GHz, 50 Ω , W1(f)-0.8 mm(f)
33.8.850	DC to 145 GHz, 50 Ω , 0.8 mm(m)-0.8 mm(m)
33.8.8F50	DC to 145 GHz, 50 Ω , 0.8 mm(m)-0.8 mm(f)
33.8F.8F50	DC to 145 GHz, 50 Ω , 0.8 mm(f)-0.8 mm(f)