multiLane

Precision RF Coaxial Adapters

Within Series and Between Series Precision Grade Connector Savers | DC-67 GHz

Test & Measurement | Telecommunications | High Speed Digital

Features & Benefits

High repeatability and accuracy
Premium materials in a deliberate design rated to 1000 cycles for a long service life and high mating reliability

Excellent for high frequency applications
Consistent impedance profile with low insertion & return loss

Wide variety of mating interfaces
50 Ω precision grade coaxial adapters with a frequency range up to 65 GHz, available in within-series and between-series configurations:

	Between Series				Within Series		
	Plug to Plug	Jack to plug		Jack to Jack	Plug to Plug	Jack to Plug	Jack to Jack
50Ghz	2.40 mm / 1.85mm	2.40 mm / 1.85mm	2.40 mm / 1.85mm	2.40 mm / 1.85mm	1.85 mm 67 GHz	1.85 mm 67 GHz	1.85 mm 67 GHz
40Ghz	2.92 mm / 1.85mm	2.92 mm / 1.85mm	2.92 mm / 1.85mm	2.92 mm / 1.85mm	2.40 mm 50 GHz	2.40 mm 50 GHz	2.40 mm 50 GHz
40Ghz	2.92 mm / 2.40mm	2.92 mm / 2.40mm	2.92 mm / 2.40mm	2.92 mm / 2.40mm	2.92 mm 40 GHz	2.92 mm 40 GHz	2.92 mm 40 GHz

50 Ω RF Coaxial Adapters – Within Series – Straight Configuration

Configuration	Interface	Part Number	V.S.W.R Max	Insertion Loss
Plug to Plug	1.85mm	MLA-185MST-185MST	1.15 max. at 65 GHz	0.48 db max. at 65 Ghz
	2.40mm	MLA-240MST-240MST	1.15 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm	MLA-292MST-292MST	1.15 max. at 40 GHz	0.38 db max. at 40 GHz
Plug to Jack	1.85mm	MLA-185MST-185FST	1.20 max. at 65 GHz	0.48 db max. at 65 Ghz
	2.40mm	MLA-240MST-240FST	1.20 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm	MLA-292MST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
Jack to Jack	1.85mm	MLA-185FST-185FST	1.20 max. at 65 GHz	0.48 db max. at 65 Ghz
	2.40mm	MLA-240FST-240FST	1.20 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm	MLA-292FST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz

50 Ω RF Coaxial Adapters – In-Between Series – Straight Configuration

Configuration	Interface	Part Number	V.S.W.R Max	Insertion Loss
1.85mm Jack to	2.40mm Plug	MLA-185FST-240MST	1.20max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm Plug	MLA-185FST-292MST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
	2.40mm Jack	MLA-185FST-240FST	1.20 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm Jack	MLA-185FST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
1.85mm Plug to	2.40mm Plug	MLA-185MST-240MST	1.15 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm Plug	MLA-185MST-292MST	1.15 max. at 40 GHz	0.38 db max. at 40 GHz
	2.40mm Jack	MLA-185MST-240FST	1.20 max. at 50 GHz	0.42 db max. at 50 GHz
	2.92 mm Jack	MLA-185MST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
2.40 mm Jack to	2.92 mm Plug	MLA-240FST-292MST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
	2.92 mm Jack	MLA-240FST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz
2.40 mm Plug to	2.92 mm Plug	MLA-240MST-292MST	1.15 max. at 40 GHz	0.38 db max. at 40 GHz
	2.92 mm Jack	MLA-240MST-292FST	1.20 max. at 40 GHz	0.38 db max. at 40 GHz

Mechanical & Environmental Specifications

Materials	Body	Passivated stainless steel
	Contact	Gold-plated BeCu contact
Male-Female Mating Cycles		> 500 mating cycles typical
Operating Temperature Range	Within Series	-65°C to +165°C
	Between Series	-55°C to +85°C