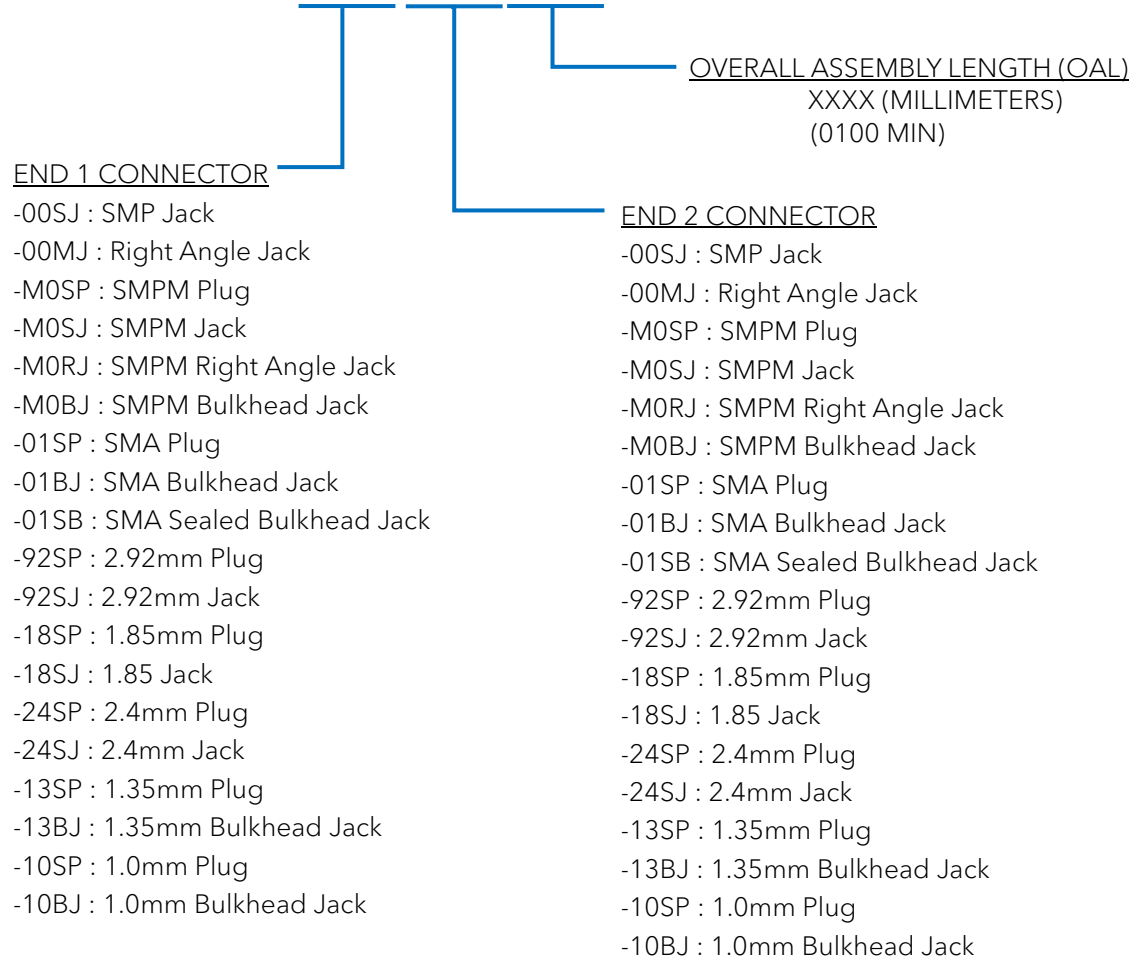


Series: RF047-A, Cable Assembly, 50 Ω



Part Number:

RF047-A-XXXX-XXXX-XXXX



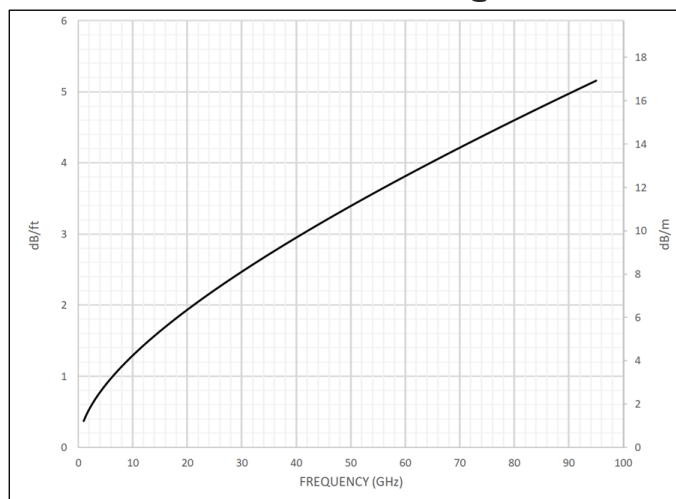
Series: RF047-A, Cable Assembly, 50 Ω

ELECTRICAL DATA

Impedance	50 Ω	
Frequency Range	1.00mm Plug, 1.00mm Jack	DC to 110 GHz
	1.35mm Plug, 1.35mm Jack	DC to 90 GHz
	1.85mm Plug, 1.85mm Jack	DC to 67 GHz
	2.40mm Plug, 2.40mm Jack,	DC to 50 GHz
	SMP Jack	DC to 40 GHz
	SMP Right Angle Jack	DC to 26.5 GHz
	SMA Plug, SMA Bulkhead Jack, SMA Sealed Bulkhead Jack	DC to 26.5 GHz
	SMPM Right Angle Jack	DC to 20 GHz
	All Other Options	DC to 40 GHz
Velocity of Propagation	70 %	
Capacitance	95 pF/meter	
Time Delay	4.76 ns/meter	
VSWR	1.00mm Plug, 1.00mm Jack	DC to 90GHz: 1.4:1 Max 90GHz to 110GHz: 1.5:1 Max
	1.35mm Plug, 1.35mm Jack	1.4:1 Max
	1.85mm Plug, 1.85mm Jack	1.4:1 Max
	2.92mm Plug, 2.92mm Jack	1.35:1 Max
	2.40mm Plug, 2.40mm Jack	1.35:1 Max
	SMP Jack	DC to 26.5 GHz: 1.25:1 Max 26.5 GHz to 40 GHz: 1.5:1 Max
	SMP Right Angle Jack	DC to 18.0 GHz: 1.25:1 Max 18.0 GHz to 26.5 GHz: 1.4:1 Max
	SMA Plug, SMA Bulkhead Jack, SMA Sealed Bulkhead Jack	1.3:1 Max
	SMPM Plug, SMPM Jack	1.4:1 Max
	SMPM Right Angle Jack	1.45:1 Max
Insertion Loss	See Graph	
Power Handling	See Graph	

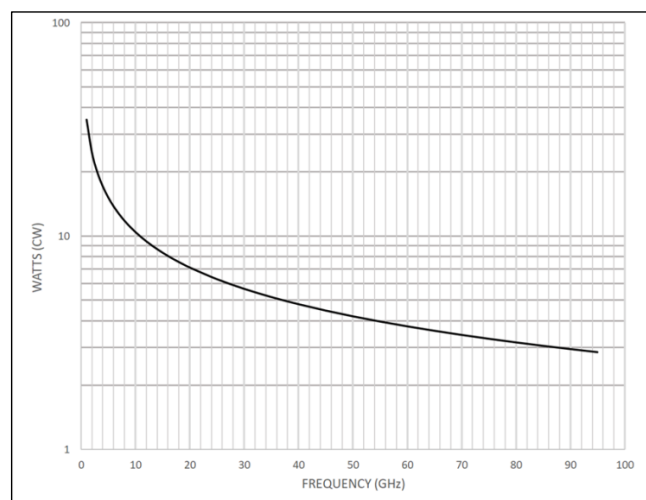
Series: RF047-A, Cable Assembly, 50 Ω

MAXIMUM INSERTION LOSS @ T=25°C¹



¹Not including connector losses. Connector losses can be approximated as $0.045\sqrt{F(\text{GHz})}$ dB/connector.

TYPICAL POWER HANDLING @ T=25°C²



²Guideline, only. Actual power handling performance depends on mounting and cooling.

MECHANICAL DATA

Outer Diameter (cable only)	1.42 mm
Mass	5.2 grams/meter
Minimum Bend Radius (Static)	5.0 mm
Minimum Bend Radius (Dynamic)	10.0 mm
Minimum Connector Retention	2.26 kg

ENVIRONMENTAL DATA

Temperature Range	-65 to +125°C
Thermal Shock	MIL-STD-202-107, -65°C to +125°C, 10 cycles

Series: RF047-A, Cable Assembly, 50 Ω

CONNECTOR OPTIONS

End Option	Description	Drawing
00SJ	SMP Jack	PRF00-J-C-EE-047A-SD-X Drawing
00MJ	SMP Right Angle Jack	PRF00-J-C-EE-047A-RD-1-X Drawing
M0SP	SMPM Plug (Full Detent)	PRFM0-P-C-HG-047A-SD Drawing
M0SJ	SMPM Jack	PRFM0-J-C-HG-047A-SD Drawing
M0RJ	SMPM Right Angle Jack	PRFM0-J-C-EE-047A-RD Drawing
M0BJ	SMPM Bulkhead Jack	PRFM0-J-C-EE-047A-BD Drawing
92SP	2.92mm Plug	PRF92-P-C-EP-047A-SS Drawing
92SJ	2.92mm Jack	PRF92-J-C-EP-047A-SS Drawing
18SP	1.85mm Plug	PRF18-P-C-EP-047A-SS Drawing
18SJ	1.85mm Jack	PRF18-J-C-EP-047A-SS Drawing
24SP	2.40mm Plug	PRF24-P-C-EP-047A-SS Drawing
24SJ	2.40mm Jack	PRF24-J-C-EP-047A-SS Drawing
13SP	1.35mm Plug	PRF13-P-C-VP-047A-SS Drawing
13BJ	1.35mm Jack	PRF13-J-C-VP-047A-BS Drawing
10SP	1.00mm Plug	PRF10-P-C-VP-047A-SS Drawing
10BJ	1.00mm Jack	PRF10-J-C-VP-047A-BS Drawing
01SP	SMA Plug	PRF01-P-C-EG-047A-SD Drawing
01BJ	SMA Bulkhead Jack	PRF01-J-C-EG-047A-BD Drawing
01SB	SMA Sealed Bulkhead Jack	PRF01-J-C-EG-047A-BD-1 Drawing

ADDITIONAL INFORMATION

Cable Type	Datasheet
Cable Assembly	RF047-A Drawing



Series: RF047-A, Cable Assembly, 50 Ω

USE OF PRODUCT SPECIFICATION SHEET

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