





Product Features

P1-SMAP/SMAP-RG316-5 is a cable that is part of P1dB's RG series flex cable assemblies. It is a 5 inch SMA Male to SMA Male cable assembly that utilizes RG-316 RG Type Flex coax, which is 0.098 inches in diameter. This RG Type Flex cable operates to 6 GHz with a max VSWR of 1.35:1.

P1dB's RG Type Flex cable assemblies are general purpose commercial grade cables that meet dimensional and electrical specifications of QPL cables. RG Type Flex cables can operate up to 6 GHz, depending on the installed connectors. The advantage of RG type commercial cables over QPL cables is their lower cost, since they do not go through the stringent environmental, mechanical and certification testing required for military grade, QPL equivalents.



Electrical Specification: T_{Ambient} = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		6.0	
VSWR	DC to 0.4	1:			1.2	
	0.4 to 1.0				1.25	
	1.0 to 2.4				1.3	
	2.4 to 5.0				1.35	
Insertion Loss	DC to 0.4	dB/ft.			0.18	
	0.4 to 1.0				0.31	
	1.0 to 2.4				0.49	
	2.4 to 5.0				0.67	
Velocity Of Propagation		%		69.5		

Mechanical And Environmental Specifications:

Parameter	Description	Notes	
Connector 1	SMA Male		
Connector 1 Coupling Nut	Gold Plated Brass		
Connector 1 Body	Gold Plated Brass		
Connector 1 Contact	Gold Plated Brass		
Connector 2	SMA Male		
Connector 2 Coupling Nut	Gold Plated Brass		
Connector 2 Body	Gold Plated Brass		
Connector 2 Contact	Gold Plated Brass		
Coax Cable	RG Type Flex		
Cable Type	RG-316		
Cable Inner Conductor	7/.0067 SPCW		
Dielectric	PTFE		
Shield	1. SPC Braid		
Jacket	FEP		
Coax Diameter	0.098		

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P1-SMAP/SMAP-RG316-5

SMA Male to SMA Male, RG-316, 5 inch

Parameter	Description	Notes
Minimum Bend Radius	0.5	
Length	5.0	
Operating Temprature	-55.0 to 200.0 °C	
RoHS Compliance	Yes	

Product Notes