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604-20-1, 10 Watts, Hz-6.0 GHz

Add to Quote

SKU 604-20-1

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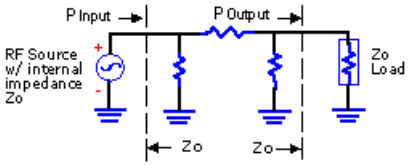
Description:

MECA's 604-20-1 SMA (Male/Female) fixed attenuator features a frequency range of Hz-6.0 GHz, an average power rating of 10 watts and is available from STOCK in 1 - 40 dB values. ROHS Compliant. To order, please specify an attenuation value in place of dB. EXAMPLE: 604-**20**-1 for 20 dB.

ELECTRICAL SPECIFICATIONS				
Frequency (GHz)	VSWR (Max)	Average Power [1] (W)	Peak Power [2] (W)	Attenuation (dB)
Hz - 6.0	1.20:1	10	500	SEE TABLE

MECHANICAL SPECIFICATIONS	
CONNECTORS	Stainless Steel, Passivate
CONTACT PINS SMA MALE: SMA FEMALE:	 Stainless Steel, Passivate Beryllium Copper, Gold Plate
CONNECTOR I. TORQUE	8 ± 1 in. lbs
HOUSING	Aluminum, Black Anodize
INSULATORS	PTFE
TEMPERATURE	-55°C to +85°C
WEIGHT (NOMINAL)	1.5 oz

Attenuation (dB)	ACCURACY (± dB)	
	Hz - 5.0 GHz	5.0 - 6.0 GHz
1 - 20	± 0.50	± 0.80
21 - 30	± 0.75	± 1.00
31 - 40	± 1.25	± 1.50



$$\text{Attenuation (dB)} = 10\log_{10}\frac{P_{Input}}{P_{Output}}$$

Click here to check Maximum Input Power Level as a function of attenuation for various power ratings.

Specifying Tip:

For best results when selecting an RF attenuator for a given connector style, make sure to consider the amount of power being absorbed and the acceptable level of reflection (VSWR) that can be tolerated over the operating frequency range.

Input Power Attenuated												
dB	1	2	3	4	5	6	7	8	9	10	20	30
%	20.57	36.90	49.88	60.19	68.38	74.88	80.05	84.15	87.41	90.00	99.00	99.90
Convenient Electrical Conversions												
VSWR		1.05:1	1.10:1	1.15:1	1.20:1	1.25:1	1.30:1	1.35:1	1.40:1	1.50:1		
Return Loss (-dB)		32.256	26.444	23.127	20.828	19.085	17.692	16.540	15.563	13.979		
Voltage Reflection Coeff.		0.024	0.048	0.070	0.091	0.111	0.130	0.149	0.167	0.200		
Match Efficiency (%)		99.94	99.97	99.51	99.17	98.77	98.30	97.78	97.22	96.00		
Mismatch Loss (-dB)		0.003	0.010	0.021	0.036	0.054	0.075	0.097	0.122	0.177		

Notes:

1. Average power @ +25°C derated linearly to 6.25 Watts @ +85°C
2. 5 µSec pulse, 0.05% duty cycle.
3. Impedance (Nominal): 50 Ohms.

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