

# SA6Q-20 DATA SHEET

# **20 dB Fixed Attenuator QMA Male To QMA Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body**

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock selections and ships them same day. The SA6Q-20 is a 20 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses QMA male to QMA female connectors and is also REACH and RoHS compliant.

# **Electrical Specifications**

Description	ion Min Typ Max		Max	Units	
Frequency Range	DC		6	GHz	
Impedance		50		Ohms	
Nominal Attenuation		20		dB	
Attenuation Accuracy		±0.5		dB	
VSWR			1.25:1		
Input Power, CW derated linearly to 0.2	W at +125°C		2	Watts	
Input Power, Peak 5µs pulse, 0.1% duty	cycle		250	Watts	
Specifications by Fre	quency				

Description	F1	F2	F3	F4	F5	Units
Range	DC to 4	4 to 6				GHz
VSWR, Max	1.15:1	1.25:1				

### **Mechanical Specifications**

Size Length Weight Body Material and Plating

### Configuration

Design Package Style 1.4 in [35.56 mm] 0.019 lbs [8.62 g] Brass, Tri-Metal

Fixed Connectorized Module



# Features:

- DC to 6 GHz Frequency Range
- Attenuation 20±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.25:1

# **Applications:**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### Connectors

Description	Description Connector 1	
Туре	QMA Male	QMA Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

# **Environmental Specifications**

**Temperature** Operating Range

-65 to +125 deg C

Environmental Specification Notes: Designed to meet environmental requirements of MIL-DTL-3933.

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

### **Plotted and Other Data**

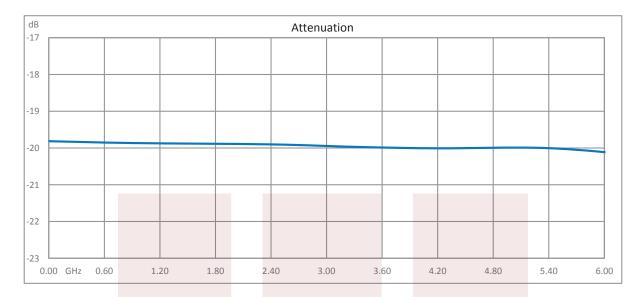
Notes:

#### Typical Performance Data









20 dB Fixed Attenuator QMA Male To QMA Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 20 dB Fixed Attenuator QMA Male To QMA Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body SA6Q-20

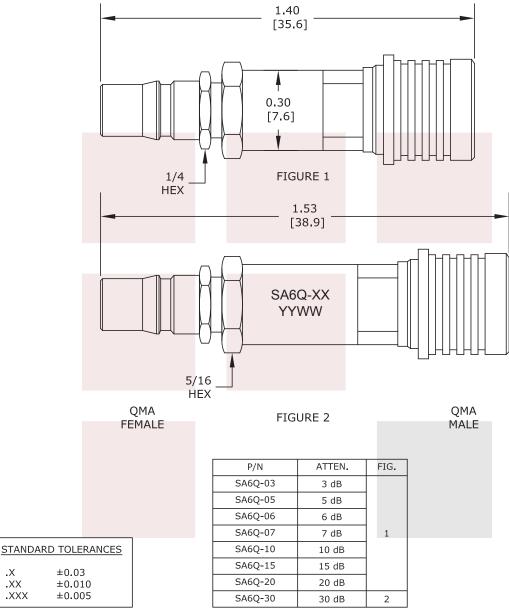
URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-gma-male-gma-female-2-watts-sa6q-20-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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20 dB Fixed Attenuator QMA Male To QMA Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body	DWG NO SA6Q			CAGE CODE 3FKR5		
	CAD FILE 032216	SHEET	SCALI	E N/A	SIZE A	3045

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