

## SA3042-20 DATA SHEET

# 20 dB Fixed Attenuator MCX Male To MCX Female Up To 6 GHz Rated To 2 Watts With Brass Nickel 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 SA3042-20 is a 20 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses MCX male to MCX female connectors and is also REACH and RoHS compliant.



Description	Min	Тур	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.2:1	
Input Power, CW			2	Watts
derated linearly to 0.2	W @ 125°C			

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
VSWR, Max	1.1:1	1.2:1				
Atten Accuracy, Ty	p ±0.2	±0.4				dB

#### **Mechanical Specifications**

Size

Length 1.05 in [26.67 mm]
Width/Diameter 0.37 in [9.4 mm]
Weight 0.0119 lbs [5.4 g]
Body Material and Plating Brass, Nickel

#### Configuration

Design Fixed, Bidirectional Package Style Connectorized



### **Features:**

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 20±0.4 dB
- Max Power 2 Watts (CW)
- VSWR < 1.2:1

## **Applications:**

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- · Production Systems

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#### **Connectors**

Description	Connector 1	Connector 2
Туре	MCX Male	MCX Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Contact Material & Plating	Phosphor Bronze, Go	old Phosphor Bronze, Gold
Contact Plating Spec.	30 µ-inch	30 µ-inch
Dielectric Type	Teflon	Teflon
Coupling Nut Material & Plating Brass, Nickel		
Coupling Nut Plating Spec.	50 μ-inch	
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	50 μ-inch	50 μ-inch

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C Storage Range -55 to +125 deg C

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

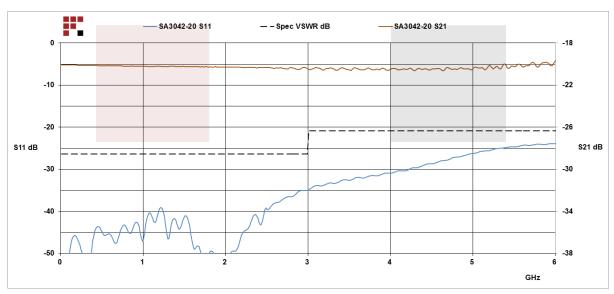
RoHS Compliant REACH Compliant

12/17/2015

#### **Plotted and Other Data**

Notes:

**Typical Performance Data** 







20 dB Fixed Attenuator MCX Male To MCX Female Up To 6 GHz Rated To 2 Watts With Brass Nickel 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 MCX Male To MCX Female Up To 6 GHz Rated To 2 Watts With Brass Nickel Body SA3042-20

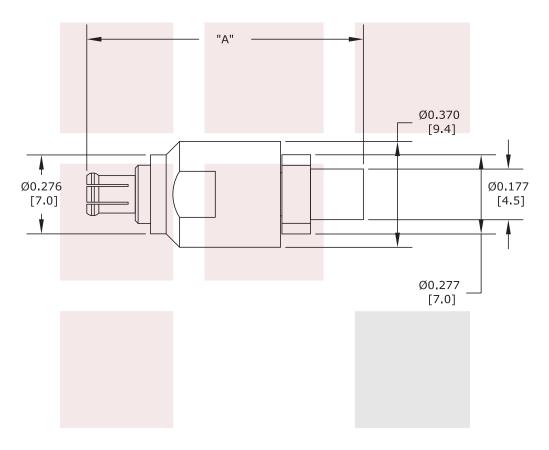
URL: http://www.fairviewmicrowave.com/20db-fixed-attenuator-mcx-plug-mcx-jack-2-watts-sa3042-20-p.aspx







P/N	Atten.	Dim."A"		
SA3042-03	3 dB	0.967		
SA3042-06	6 dB	0.967		
SA3042-10	10 dB	0.967		
SA3042-20	20 dB	1.054		
SA3042-30	30 dB	1.054		



STANDARD TOLERANCES
.X ±0.2
.XX ±0.1
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].					
20 dB Fixed Attenuator MCX Male To MCX Female Up To 6 GHz Rated To 2 Watts With Brass Nickel Body	DWG NO SA3042			CAGE CODE 3FKR5		
	CAD FILE 030216	SHEET	SCALE	≣ N/A	SIZE A	3045