

# ATTENUATORS

SMA, Conduction Cooled, DC - 4 GHz, 50 Watts

## SPECIFICATIONS:

Models: 2042S-XX, 2042S-XXF, 2042S-XXM

**RoHS**  
Compliant

Electrical:	
Frequency Range	DC - 4.0 GHz
Standard dB Values*	3, 6, 10, 20, 30 & 40 dB
Attenuation Accuracy	DC - 2 GHz      2 - 4 GHz
3 & 6 dB	±0.30 dB      ±0.50 dB
10 & 20 dB	±0.50 dB      ±0.75 dB
30 & 40 dB	±1.00 dB      ±1.50 dB
VSWR	
DC - 2 GHz	1.25:1 Max.
2 - 4 GHz	1.35:1 Max.
Input Power**	50 Watts Avg. @ 25°C Derated Linearly to 5 Watts @ +125°C
Peak Power	1000 Watts Max. (5µSec Pulse, .05% Duty Cycle)
Impedance	50 Ohms
Operating Temp Range	-55°C to +125°C
Mechanical:	
SMA Connectors	Passivated Stainless Steel
Conductors	Gold Plated Beryllium Copper
Housing	Anodized Aluminum

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\*\* Power handling capacity is dependant upon proper heatsinking. Surface temperature of unit shall not exceed 125°C for specifications shown. Unit is a unidirectional device. Input shall be at male port unless otherwise specified.

Model Number: **2042S-XX**

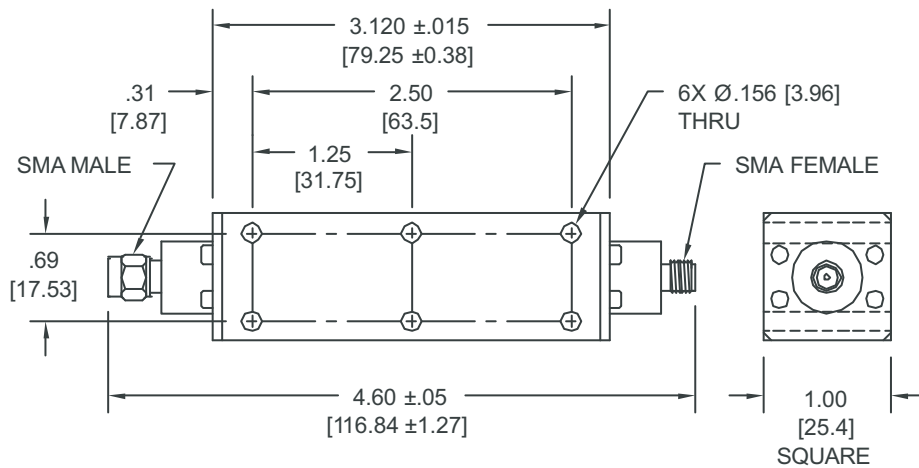
Male/Female Connectors  
Length: 4.60 ±0.05 [16.84 ±1.27]  
Pictured

Model Number: **2042S-XXF**

Female/Female Connectors  
Length: 4.47 ±0.05 [18.64 ±1.27]

Model Number: **2042S-XXM**

Male/Male Connectors  
Length: 4.74 ±0.05 [120.25 ±1.27]



## HOW TO ORDER:

Model Number: **2042S-XXY**

Connector Configuration  
= Male/Female  
F = Fem/Fem  
M = Male/Male

dB Value

## Ordering Examples:

Model Number: **2042S-20**  
DC - 4 GHz; 20 dB; SMA - Male/Fem

Model Number: **2042S-02F**  
DC - 4 GHz; 2 dB; SMA - Fem/Fem

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.

2042S: REV K

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