

### Description

BMA are 50-ohm, high-frequency connectors with slide-on mating, approximately the same size as SMA connectors.

### Applications |

- Satellite Communication Equipment
- Microwave Subsystems
- · Test and Measurement
- Wireless Base Station Equipment
- Military Radar

### Features

- Blindmate & "floating" configurations
- Good electrical performance up to 22GHz
- Misalignment in board to flange application.

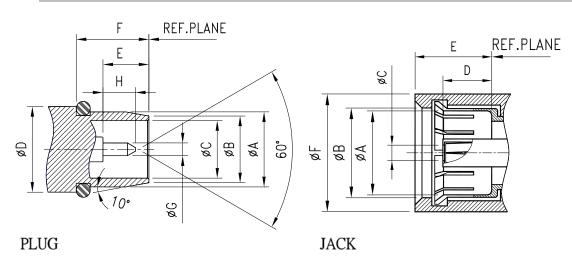
# BMA Series

# BMA - Specification

BMA connectors are 50-ohm with slide-on mating & non-locking interface that accomplish feature of blindmate. The feature of blindmate has an external spring to provide mechanical movement for extensive mechanical misalignment of  $\pm$  .020 radial and .060 axial minimum is suitable for high performance microwave applications such as wireless infrastructure, satellite equipment and test and measurement.

BMA also offer good electrical performance up to 22GHz and approximately the same size as SMA connectors

# Interface Mating Dimensions:



Lattan	Millimeters	
Letter	Minimum	Maximum
Α	5.31(.209)	5.36(.211)
В	_	4.90(.193)
С	4.09 NOM.	(1.61 NOM)
D	_	7.62(.300)
Е	3.25(.128)	
F	5.03(.198)	_
G	0.90(.0355)	0.94(.0370)
Н	2.29 NOM.(.090 NOM)	

Lattan	Millimeters	
Letter	Minimum	Maximum
А	_	5.08(.200)
В	5.72(.225)	
C	SEE N	OTE 1
D	_	3.23(.127)
Е	_	5.03(.198)
F	7.37(.290)	_

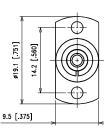
Note 1. Mated with 0.92±0.02 Pin.

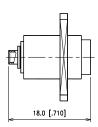
# BMA Series

Electrical:		
<u>Impedance</u>	50ohm	
Frequency Range	0 to 22.0 GHz	
VSWR	RG-402(.141"OD) $\rightarrow$ 1.02+.005f	GHz(DC~18GHz)
	1.02+.008f GHz(18~22GHz)	
	RG-405(.085"OD)→1.05+.005f	GHz(DC~18GHz)
	1.05+.009	f GHz(18~22GHz)
Voltage Rating	RG-402(.141"OD)→375 volts m	nin.
	RG-405(.085"OD)→335 volts r	ms min.
Dielectric withstanding Voltage	RG-402(.141"OD)→1500 volts	rms at sea level
	RG-405(.085"OD)→1000 volts	rms at sea level
Contact resistance Center Contact : 3.0 Milliohms Max.		Max
	Outer Contact : 2.0 Milliohms N	Лах.
Insulator resistance	5,000 Megaohms min.	
Mechanical & Environmental :		
Durability	The connector to be tested and it's mating connector shall be subjected	
	to 500 insertions and withdrawal cycles at 12 cycles per minute	
	maximum. The connector shall show no evidence of mechanical failure	
	and connector shall meet the ma	ating characteristic requirements.
Engagement force	3.0 lbs max.	
Disengagement force	1.5 lbs max.	
Center Contact Retention	6.0 lbs. Minimum	
Vibration	MIL-STD-202,Method 204,Condition D	
Salt Spray	MIL-STD-202,Method 101,Condition B	
Shock	MIL-STD-202, Method 213, Condition I	
Temperature Range	-65°C to +125°C	
Thermal Shock	MIL-STD-202, Method 107, Condition B	
Moisture Resistance	MIL-STD-202, Method 106	
Material:		
	Material	Plating
Bodies	Brass	Gold
	Stainless steel	Passivated
Center Contact	Male:Brass	Gold
	Female:Beryllium-Copper	Gold
Insulation	Teflon	None
Gasket	Silicone	None
Spring Basket	Beryllium-Copper	Gold
Spring	Stainless steel	None

# DIRECT SOLDER FOR SEMI-RIGID CABLE



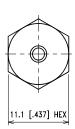


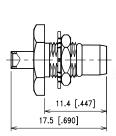


# PANEL MOUNT CABLE JACK -2 HOLE SQUARE FLNAGE

<u>P/N</u>	Cable Group	Impedance
160-F130	25	50
160-F13A	24	50



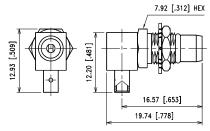




### BULKHEAD CABLE PLUG

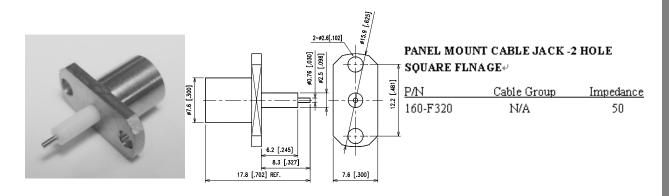
<u>P/N</u>	Cable Group	Impedance
160-M110	25	50
160-M111	27	50



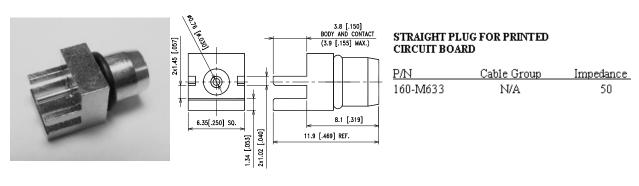


#### RIGHT ANGLE BULKHEAD CABLE PLUG

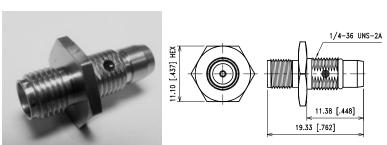
<u>P/N</u>	Cable Group	Impedance
160-M120	25	50
160-M121	27	50



# PRINTED CIRCUIT BOARD



# ADAPTOR



# BULKHEAD PLUG TO SMA JACK ADAPTOR

P/N	Cable Group	Impedance
160-A010	N/A	50