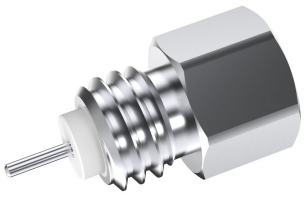
B2BYM-SI



1.5-3.5 Male Straight B2B, Screw-In Type on Filter

Product Classification

Product Type	Device connector

General Specifications

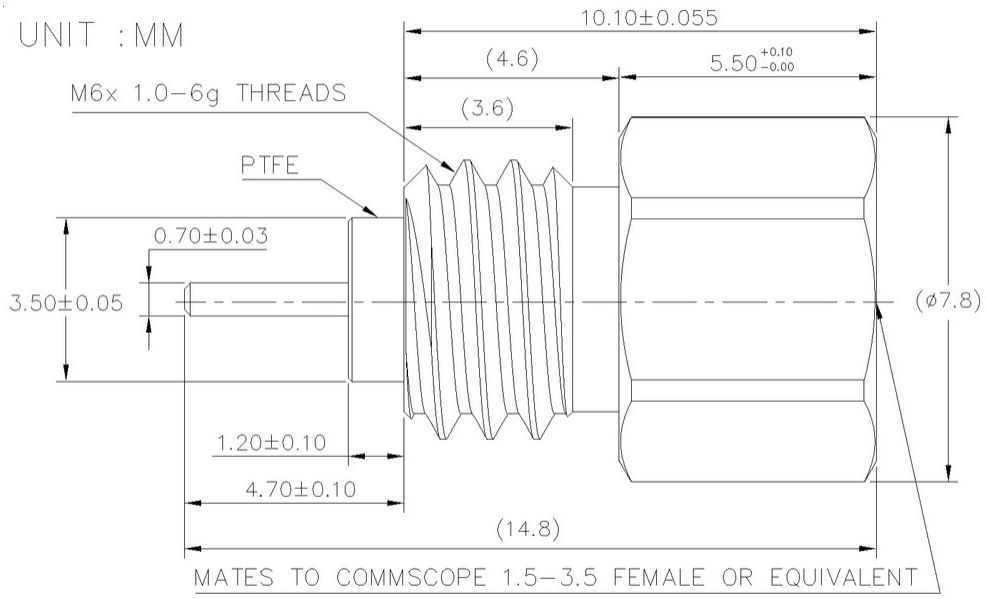
Body Style	Straight
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	1.5-3.5 Male
Mounting Angle	Straight
Outer Contact Plating	Trimetal

Dimensions

Height	7.8 mm | 0.307 in
Width	7.8 mm | 0.307 in
Length	14.8 mm | 0.583 in
Diameter	7.8 mm | 0.307 in

Outline Drawing

B2BYM-SI



Electrical Specifications

3rd Order IMD at Frequency	-110 dBm @ 3500 MHz | -117 dBm @ 1800 MHz | -117 dBm @ 2600 MHz | -117 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, maximum	0.1 dB
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	2 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2 mOhm
RF Operating Voltage, maximum (vrms)	500 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
450–2200 MHz	1.065	30.04
2200–3800 MHz	1.065	30.04

3800–4200 MHz	1.083	27.99
4200–6000 MHz	1.222	20.01

Mechanical Specifications

Insertion Force	15 N | 3.372 lbf
Interface Durability	100 cycles
Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27
Radial Float/Misalignment	2.7 °

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °F
Corrosion Test Method	IEC 60068-2-11
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	1.75 g | 0.004 lb