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RFPC-SMA23-FN	CUSTOMER PRODUCT SPECIFICATION SHEET	RoHS Compliant

RFPC-SMA23-FN: SMA Bulkhead Jack With O-ring, Edge Mount Connector, Rated to IP68/69K, 6GHz

Material and Plating:

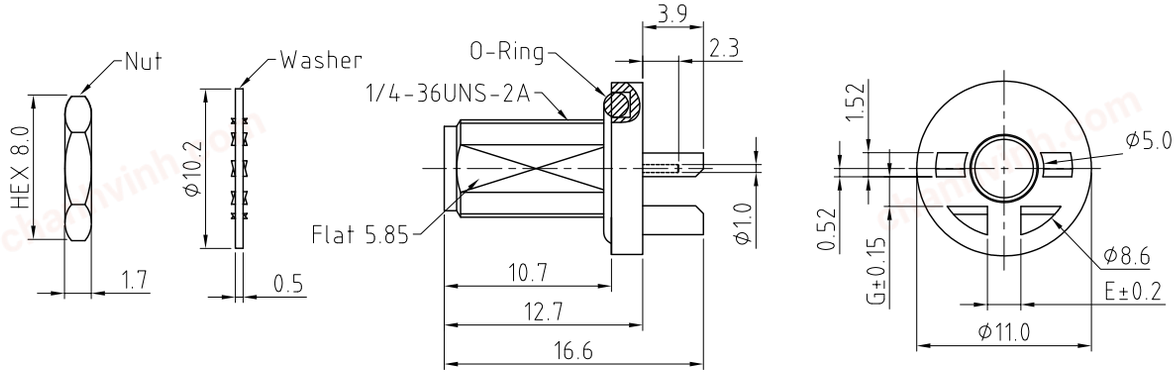
Insulator A: Teflon
Insulator B: Teflon
Body: Brass, Gold Plated
Pin: Phosphor Bronze, Gold Plated
Gasket A: Silicone rubber, Color: Red
Gasket B: Silicone rubber, Color: Red
O-Ring: Silicone rubber, Color: Red
Barrel: Brass, Gold Plated

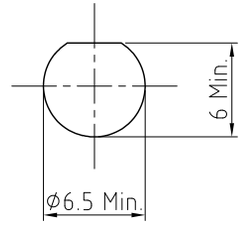
Washer: Brass, Gold Plated

Nut: Brass, Gold Plated

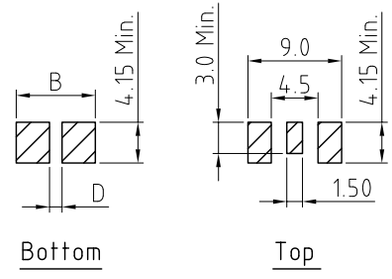
Environmental:
A. Tested to:
i. IP6x - Dust tight - no particle ingress.
ii. IPx8 Waterproof for 48 hours at 1 meter underwater.
iii. IPx9K Water spray, 14-16L per minute, at 8,000 ~ 10,000 kPa, at 100-150mm distance for 30 seconds.

Notes:
1. Working Frequency Range: DC-6GHz.
2. Operating Temperature: -65°C to +165°C.
3. Impedance: 50 Ohm
4. VSWR: 1.5 Max.
5. Recommended PCB Thickness: 0.80mm/1.20mm/1.60mm. Other PCB thickness available on request





Recommended Mounting Hole



Recommended Foot Print
Tolerance: ±0.05

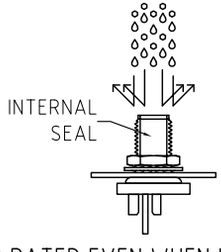
Dim B	Dim D	Dim E	Dim G	Recommended PCB thickness
8.4	3.7	4.0	0.95	0.80
8.0	3.7	4.0	1.40	1.20
7.6	1.2	1.55	1.86	1.60

HOW TO ORDER

RFPC - SMA23 - FN - XXX - X

DIMENSION G OPTIONS:
095 = 0.95MM, FOR 0.80MM PCB THICKNESS
140 = 1.40MM, FOR 1.20MM PCB THICKNESS
186 = 1.86MM, FOR 1.60MM PCB THICKNESS

WASHER AND NUT OPTIONS:
BLANK = SEPARATELY PACKED (STANDARD)
A = ALL ASSEMBLED WITH CONNECTOR



IP RATED EVEN WHEN UNMATED

REV.	DATE & DRN	
1.0	23/05/'23 - NYW	RELEASE
1.1	26/06/'23 - NYW	UPDATE IP RATING.
1.2	08/09/'23 - NYW	⚠ AMEND DIMENSION.
1.3	31/03/'24 - CC	ADD IP RATING VIEW
1.4	12/04/'24 - CC	ADD NOTE FOR OTHER PCB THICKNESS
1.5	12/04/'24 - CC	ADD 0.95MM GAP OPTIONS.
1.6	04/12/'24 - CC	Add GCT logo.
1.7	24/02/'25 - CC	Add 1.40mm to Dim G options.

Scale: NTS	THIRD ANGLE	Unstated Tolerances: .X ±0.2, .XX ±0.2, .XXX ±0.2, ANGLES N/A	Drawing Number: RFPC-SMA23-FN
Drawn: CC			
App'd: XXX	Title SMA PCB Connector		Sheet 1 of 1
Date: 24 Feb. '25	Revision: 1.7	Unit: mm	Drawing © E and O E

IP Rated RF Products

GCT GradConn
www.gct.co www.gradconn.com

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