### CUSTOMER PRODUCT SPECIFICATION SHEET

## RoHS Compliant

0-RING

0.8

-WASHER

-NUT

2.3

0.5

œ.

Ø9.7

RECOMMENDED SMA MOUNTING HOLE

# CAB442RF: I-PEX MHF + ISOLATED SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67 + RG178 CABLE, 6GHz

#### SPECIFICATIONS:

- 1. I-PEX MHF PLUG. P/N: 20278-112R-18.
- 2. RG178 CABLE, COLOR: BROWN.
- 3. ISOLATED SMA STRAIGHT BULKHEAD JACK WITH 0-RING RATED TO IP67. NICKEL PLATED, P/N: RFCT-SMA085-F78.

#### ENVIRONMENTAL:

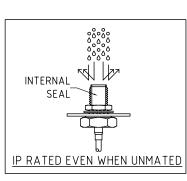
- A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA085-F78) RATED TO THE FOLLOWING SPECIFICATION:
  - i. IP6X DUST TIGHT NO PARTICLE INGRESS.
  - ii. IPX7 WATERPROOF FOR 30 MINUTES UP TO 1 METER UNDERWATER.

#### NOTES:

- 1. THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.
- 2. FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 25MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)
- 3. CONTACT GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
- 4. WORKING FREQUENCY RANGE: DC-6GHz.
- 5. OPERATING TEMPERATURE: -40°C TO +85°C.
- 6. IMPEDANCE: 50 Ohm.
- 7. CARE SHOULD BE TAKEN NOT TO OVERTIGHTEN THE MATING CONNECTOR. OVERTIGHTENING RISKS COMPROMISING THE IP RATING OF THE CONNECTOR.

# USAGE PRECAUTIONS: CABLES USING 'MICRO' COAX ARE DELICATE: (i) HANDLE WITH CARE. (ii) DO NOT TWIST: APPLY EXCESSIVE FORCES OR SHARP BENDS TO THE CABLE. DO NOT FORCEFULLY DEFORM WIRES. (iii) CONSULT CONNECTOR MANUFACTURER'S DATASHEETS FOR DETAILED NOTES ON HANDLING INSTRUCTIONS. HEATSHRINK TUBE 3/8-32UNEF-2A

0.4 1/4-36UNS-2A 6.4 0 16.3 8.40 Ċ. 20 SMA DETAIL DRAWING



HOW TO ORDER

CAB442RF - X X X X - X X - X - 1

"L" LENGTH IN MM: eq: 100MM = 0100(MIN. 0025-MAX.0400 STANDARD = 0100, 0150, 0200) Tolerance: <50mm: ±2mm 50-200mm: ±5mm.

201-400mm: ±7mm.

CABLE SIZE: 1 = RG178 CABLE, COLOR: BROWN

O-RING, WASHER AND NUT OPTIONS: BLANK = SEPARATELY PACKED (STANDARD) A = ASSEMBLED WITH CONNECTOR

ORIENTATION OPTIONS:

BLANK = DOES NOT HAVE A FIXED ORIENTATION

F1 = MHF CONNECTION DOWN (L=25-200MM) F2 = MHF CONNECTION UP (L=25-200MM)

F3 = MHF CONNECTION AND D FLAT SAME ORIENTATION (L=25-200MM)

F4 = MHF CONNECTION AND D FLAT OPPOSITE ORIENTATION (L=25-200MM)

(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)

Flat	Flat
<u>'F1' ORIENTATION</u>	<u>'F3' ORIENTATION</u>
Flat	Flat
'F2' ORIENTATION	'F4' ORIENTATION

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	REV. DATE & DRN	1.0 12/10/'20 - NYW RELEASE	1.1 19/02/"21 - NYW UPDATE ENVIRONMENTAL INFO.	1.2 04/01/'22 - NYW ADD CABLE SIZE OPTION 2.	1.3 22/03/"22 - NYW SEPERATE O-RING FROM SMA.	1,4 17/05/'22 - NYW REMOVE IPX8 RATING. ADD NOTE 7.	1.5 31/10/"22 - NYW UPDATE WORKING FREQUENCY.	1.6 20/01/"24 - CC ADD IP RATING VIEW	1.7 16/02/'25 - CC Add GCT logo.	

Scale:	NTS	THIRD ANGLE	Unstated Tolerances: .X N/A .XX N/A			
Drawn:	СС	$\Rightarrow$	_ XXX N/A ANGLES N/A	╛┎		
App'd:	xxx	Title CABLE ASSEMBLY				
Date: 16	FEB. '25	Revision: 1.7	Unit: mm			

IP Rated RF Products



CAB442RF

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Sheet 1 of 1 Drawing (C) E and 0 E

Drawing Number: