CONREVSMA024-G

Reverse-Polarity SMA Jack PCB Cutout Edge Mount Connector

Operating from 0 GHz to 18 GHz, the CONREVSMA024-G provides high performance and reliability in a small package. Mounting in a cutout/notch in a printed circuit board (PCB) the CONREVSMA024-G is more compact than standard board edge mount connectors. Additionally, all Linx connectors meet RoHS lead free standards and are tested to meet requirements for corrosion resistance, vibration, mechanical and thermal shock.

FEATURES

- 0 to 18 GHz operation
- RP-SMA jack (male pin) connection
  - Gold plated brass connector body
  - Gold plated brass center contact
- Direct surface-mount PCB attachment
- Reflow- or hand-solder assembly

ORDERING INFORMATION

Part Number	Description
CONREVSMA024-G	Reverse-polarity SMA jack (male pin), PCB cutout edge mount connector in trays (100 per tray)

Available from Linx Technologies and select distributors and representatives.

ELECTRICAL SPECIFICATIONS

Impedance	50 Ω
Frequency Range	0 to 18 GHz
Insulation Resistance	5000 MΩ min.
Voltage Rating	1000 V RMS
Contact Resistance	Center: ≤ 2.0 mΩ Outer: ≤ 2.0 mΩ
Insertion Loss (dB max)	-0.45 @ 6 GHz
VSWR (max)	1.15 @ 6 GHz

PRODUCT DIMENSIONS

Figure 1 provides dimensions of the ANT-916-CW-RCL. The rotating base allows for continuous positioning through 360 degrees even while installed.

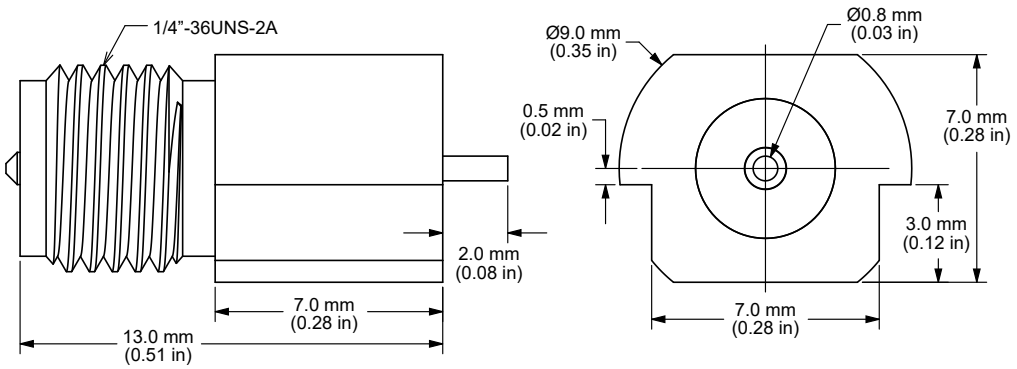

Figure 1. Product Dimensions for the CONREVSMA024-G Connector

Connector Part	Material	Material
Connector Body	Brass	Gold
Center Contact	Brass	Gold
Insulator	PTFE	–

RECOMMENDED PCB FOOTPRINT

Figure 2 shows the recommended PCB footprint and PCB cutout dimensions.

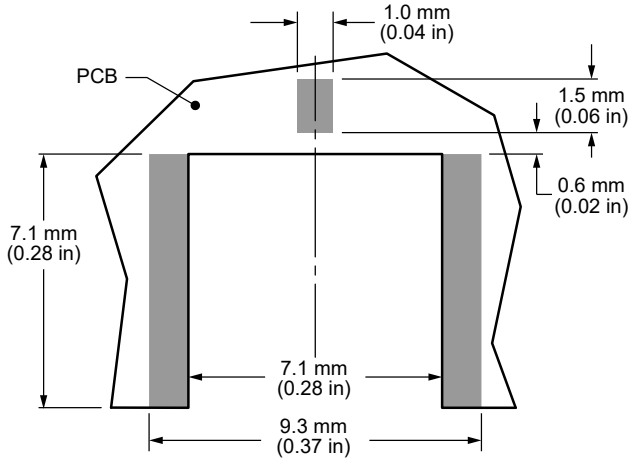

Figure 2. Recommended PCB Footprint for the CONREVSMA024-G Connector

MECHANICAL SPECIFICATIONS

	CONREVSMA024-G
Mounting Type	PCB board edge
Fastening Type	1/4"-36 UNS-2A threaded coupling
Interface in Accordance with	MIL-STD-348A
Recommended Torque	0.57 N m (5.0 in lbs)
Coupling Nut Retention	60 lbs. min.
Connector Durability	500 cycles min.
Weight	3.2 g (0.11 oz)

CONNECTOR PERFORMANCE

Table 1 shows insertion loss and VSWR values for the CONREVSMA024-G connector at commonly used frequencies. Insertion loss is the loss of signal power (gain) resulting from the insertion of a device in a transmission line. VSWR describes how efficiently power is transmitted through the connector. A lower VSWR value indicates better performance at a given frequency.

Band	Low-Band Cellular/ ISM/LPWA	Midband Cellular/ GNSS	WiFi/ISM	WiFi 6
Frequency Range	400 MHz to 960 MHz	1.1 GHz to 5 GHz	2.4 GHz	5 GHz to 7.125 GHz
Insertion Loss (dB max)	-0.08	-0.36	-0.18	-0.52
VSWR (max)	1.1	1.2	1.2	1.3

REFLOW SOLDER PROFILE

Figure 3 shows the time and temperature data for reflow soldering the connector to a PCB.

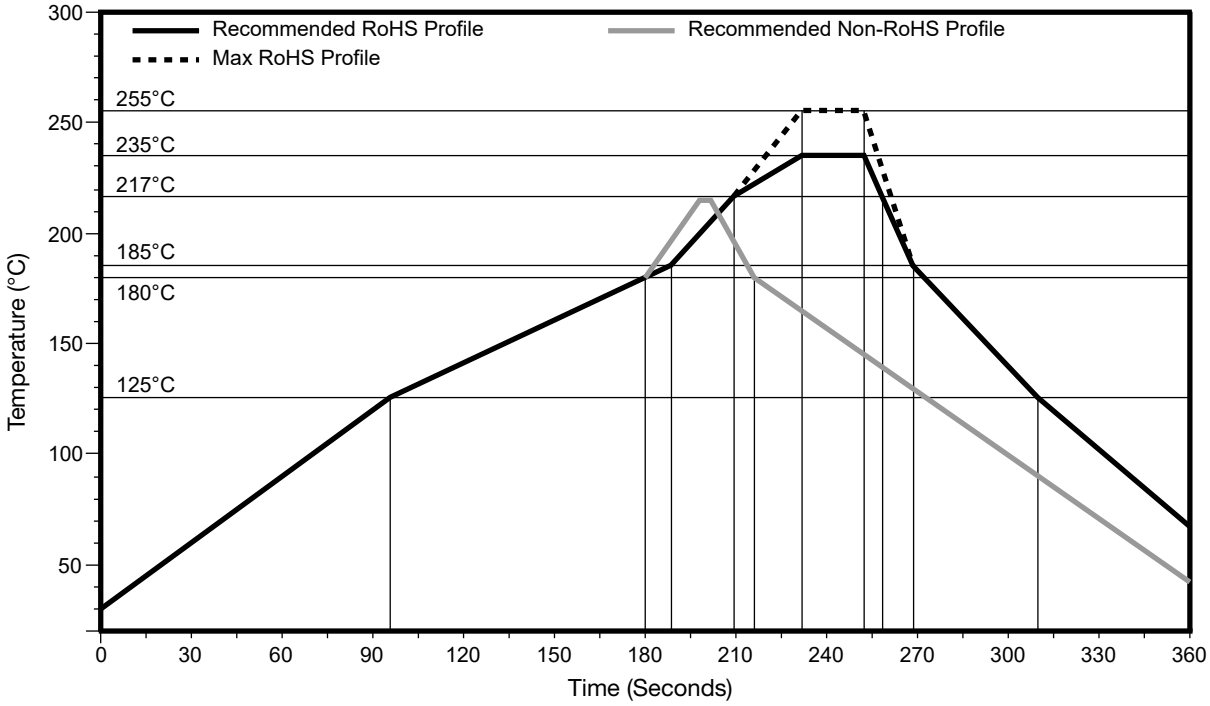

Figure 3. Recommended Reflow Solder Profile

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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