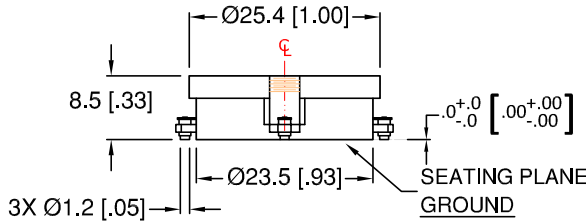
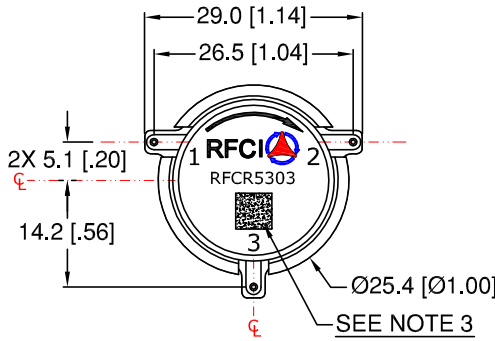


THIS DRAWING HAS BEEN GENERATED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY. DO NOT REVISE MANUALLY.

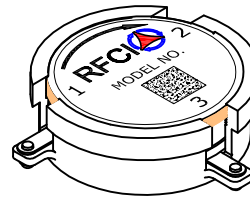
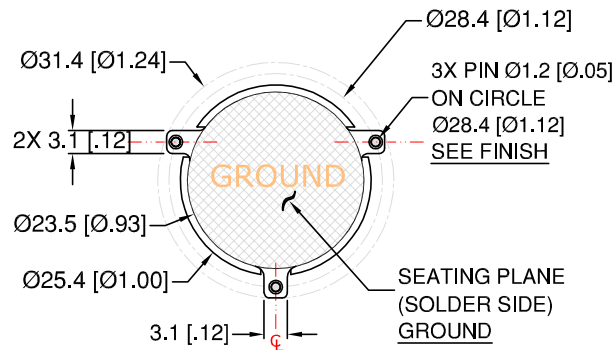
REVISIONS

| REV. | DESCRIPTION | ECO | DATE | APPROVED |
|------|-------------|--------|----------|----------|
| C | ADD ISOVIEW | 20-003 | 03/30/20 | P.T |



Terminal:

Port (1)-(2): Input-Output
Port (2)-(3): Input-Output
Port (3)-(1): Input-Output



Finish:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [0.004] MAX.

Specifications

| Parameter | Minimum | Typical | Maximum |
|--|---------|---------|---------|
| Frequency Range (MHz) | 902 | | 928 |
| Insertion Loss: In-Out (dB) | | < 0.25 | 0.30 |
| Isolation: Out-In (dB) | 20 | > 23 | |
| Return Loss (dB) | 20 | > 23 | |
| FWD IMD: 2T at 37W per T 5MHz Spacing (dBc) | | 75 | |

Notes:

- Typical Values Represent Performance @ +23 °C.
- S-Parameters to be measured by connecting Port 1 and 2 to VNA, and Port 3 to Load with return loss 30dB or higher
- Matrix BARCODE: PART NO., SN, DATE CODE

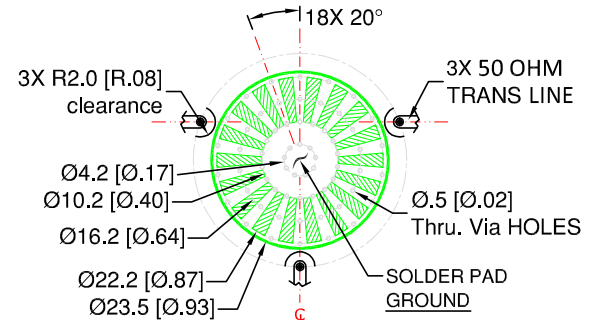
Power & Temperature Ratings

| Parameter | Maximum |
|-----------------------|----------------|
| Forward PWR Peak/CW | 500/100 Watts |
| Reverse PWR Peak/CW | 500/100 Watts |
| Operating Temperature | -40 to +95° C |
| Storage Temperature | -50 to +125° C |

Permanent damage to the Device or reduce reliability if exceeding any of the limits.

Port (1),(2)and (3): DC connected and floating as the only ground connection.

Part withstands soldering process with Maximum Temp. +260°C, in 10sec



SolderMask Pattern

Recommended Footprint
Copper-SolderMask Pattern

The Land Pattern should be with good thermal conductivity

CW SMD CIRCULATOR MODEL: RFCR5303

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MILLIMETERS [INCHES]:

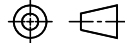
TOLERANCES ARE:
1 PLACE DECIMAL ±.2 [±.01] ANGULAR: ±1.0°
2 PLACE DECIMAL ±.10 [±.004] SURFACE ROUGHNESS 16/

REMOVE ALL BURRS AND BREAK SHARP EDGES.
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5

PROPRIETARY NOTE: "THE INFORMATION CONTAINED ON THIS DOCUMENT IS CONSIDERED TO BE CONFIDENTIAL MATERIAL PROPRIETARY TO RF CIRCULATOR ISOLATOR Inc. (RFCI) AND IS PROVIDED SOLELY FOR INFORMATION PURPOSES.
THIS INFORMATION SHALL NOT BE USED BY ANYONE OTHER THAN RFCI TO DESIGN OR CONSTRUCT ANY OF THE ITEMS DEPICTED, NOR SHALL IT BE DISCLOSED, DUPLICATED, OR COPIED FOR ANY PURPOSE, NOR MADE AVAILABLE TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF A RFCI OFFICIAL."

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION



APPROVALS

DATE

DRAWN BY:

CHECKED BY:

DESIGN BY:

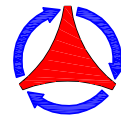
ENGINEER BY:

MFG. ENGR.

Q.A.

PROG. MGMT/MKT

RFCI



OUTLINE/SPECS

SIZE
A

CAGE NO.

DWG NO.

CR5303-OS

REV.
C

SCALE: FULL

SHEET 1 OF 1