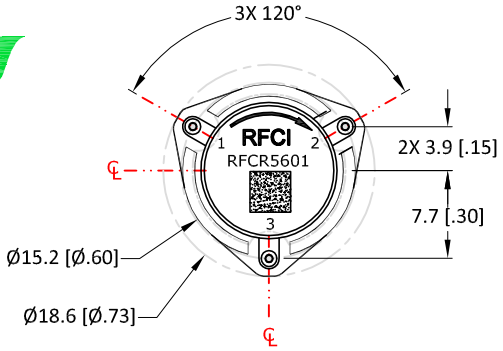
| DWG. NO. | SHT | REV |
|---|---|---|
| CR5601-OS | 1 | B |

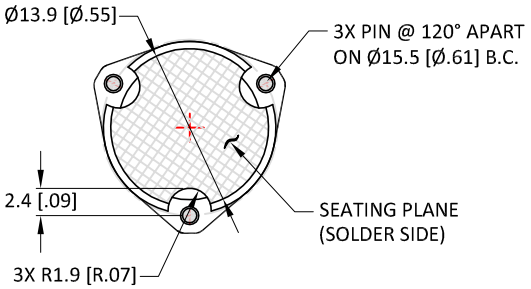
THIS DRAWING HAS BEEN GENERATED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY. DO NOT REVISE MANUALLY.

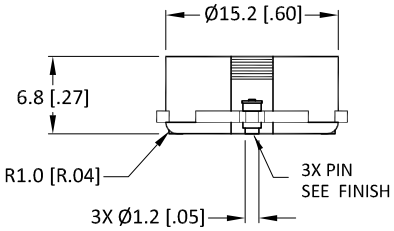
REVISIONS

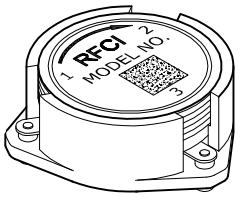
| REV. | DESCRIPTION | ECO | DATE | APPROVED |
|---|---|---|---|---|
| B | REVISED MECHANICAL HOUSING BODY | 18–007 | 10/31/18 | P.T |

RoHS COMPLIANT




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

Finish:
Body Housing: Silver plated
Pin: Gold plated
Coplanarity specification: 0.10 [.004] MAX.

## Specifications

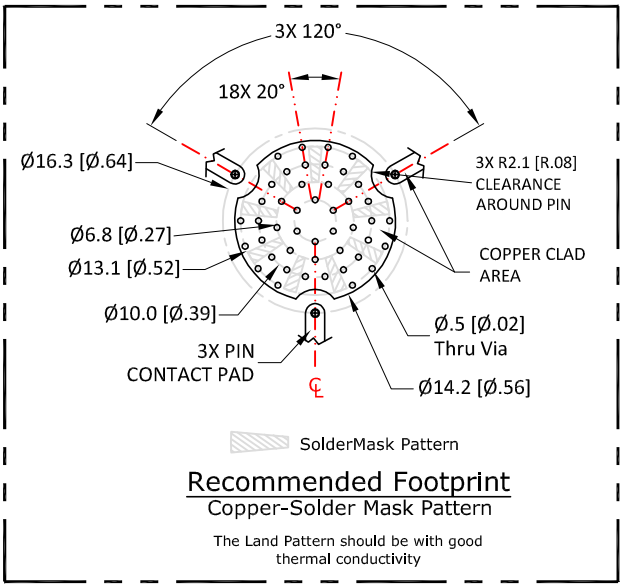
| Parameter | Minimum | Typical | Maximum |
|---|---|---|---|
| Frequency Range (MHz) | 1930 | | 1995 |
| Insertion Loss: In-Out (dB) | | < .22 | .30 |
| Isolation: Out-In (dB) | 20 | > 23 | |
| Return Loss (dB) | 20 | > 23 | |
| FWD IMD: 2T at 37W per T 5MHz Spacing (dBc) | | 70 | |

Notes:
1. Typical Values Represent Performance @ +23 °C.
2. S-Parameters to be measured by connecting Port 1 and 2 to VNA, and Port 3 to Load with return loss 30dB or higher

## Power & Temperature Ratings

| Parameter | Maximum |
|---|---|
| Forward PWR Peak/AVG | 500/100 Watts |
| Reverse Power CW | 80 Watts |
| Operating Temperature | -40 to +85° 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.




Recommended Footprint
Copper-Solder Mask Pattern

The Land Pattern should be with good thermal conductivity

# CW SMD CIRCULATOR MODEL: RFCR5601

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

TITLE
OUTLINE/SPECS

| SIZE | CAGE NO. | DWG NO. | REV. |
|---|---|---|---|
| A | | CR5601-OS | B |

SCALE: FULL | SHEET 1 OF 1