

## Single Junction Drop-In Circulator 3.1 GHz—3.5 GHz

Rev. 04

### Applications

- ◆ RADAR

### Features

- ◆ RoHS Compliant
- ◆ BeO free

### Electrical Specifications

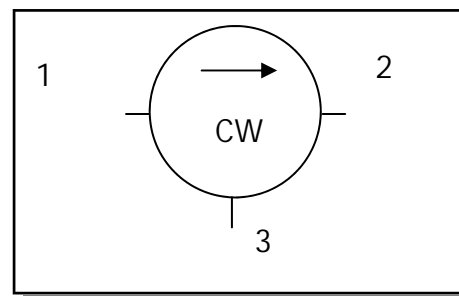
Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	3100		3500
Impedance		$\Omega$		50	
Insertion Loss		dB		0.25	0.30
Isolation		dB	23		
Return Loss		dB	21		

1. All specifications guaranteed over the operating temperature range unless otherwise stated.
2. See Application Note ANI-001 for further details.

### Pin Configuration

Terminal	Designation	Function
1	Port 1	In
2	Port 2	Out
3	Port 3	Out

### Functional Block Diagram



### Absolute Maximum Ratings

Parameter	Conditions	Units	Min	Max
Input Power		W		1500
Reverse Power		W		1500
Operating Temperature Range		$^{\circ}\text{C}$	-40	+85
Storage Temperature Range		$^{\circ}\text{C}$	-55	+125

### Application Notes Available

Application Note	Description
ANI-001	IMD Measurement of Ferrite Isolators and Circulators
ANI-003	Maximum Peak Power of Ferrite Junctions
ANI-004	Base Plate Temperature of Ferrite Isolators and Circulators
ANI-007	Reflow Soldering Guidelines
ANI-008	Curie Temperature of Isolators and Circulators
ANI-009	Tape and Reel Information for Isolators and Circulators

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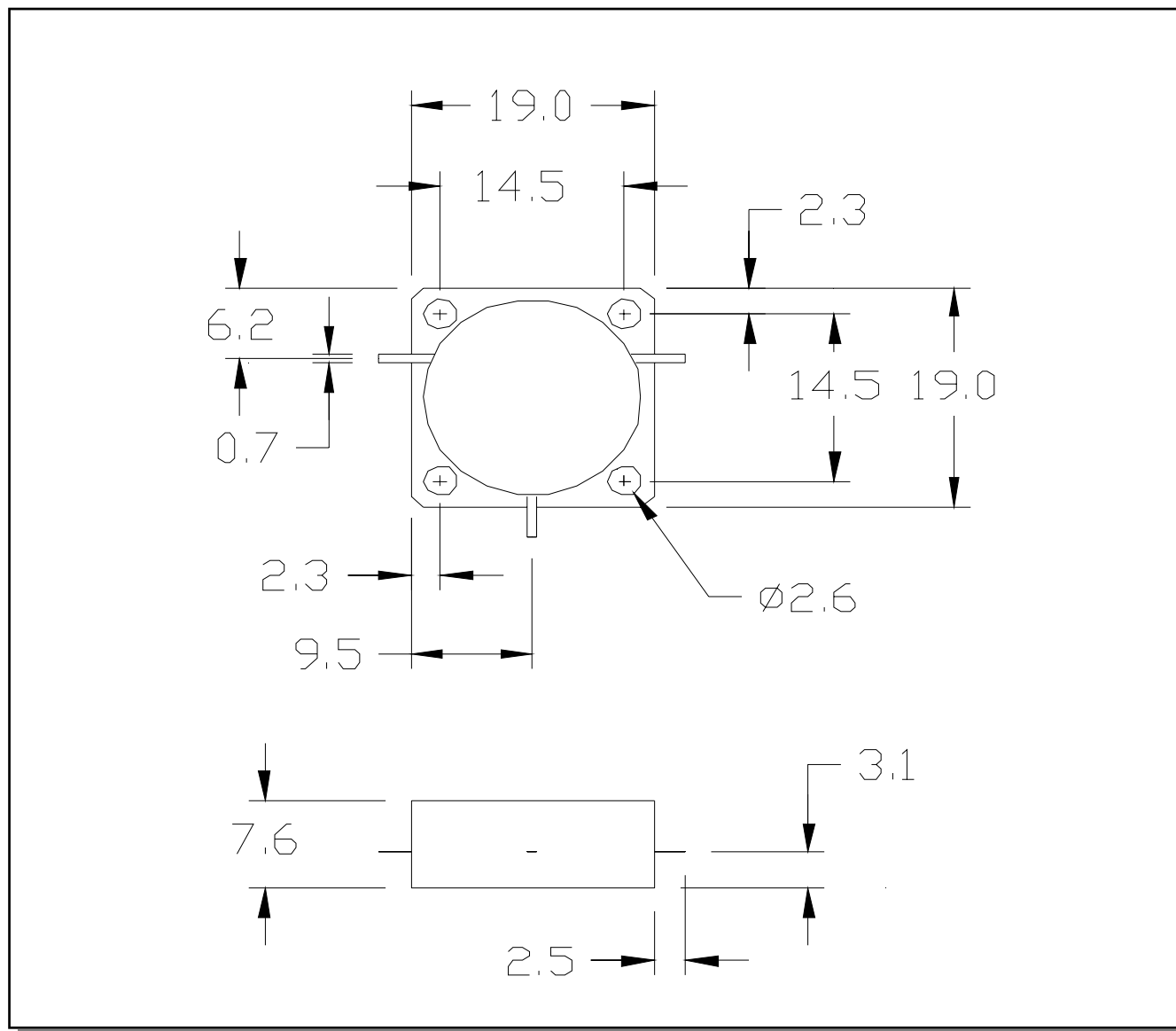
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## Outline Drawing



1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ mm unless otherwise noted.
3. Lead thickness is 0.12mm.
4. Model number, lot code and port designation printed on top side of unit.

### Plating

Section	Material	Plating
Leads	Copper	Silver
Housing	Steel	Silver

### ECO History

Rev	Date	Description	By
04	17/9/2009	Update to new format	BH