

SPECIFICATION SHEET

MAFRIN0497: 902—928 MHz Single Junction SMT Circulator

Applications

- Wireless infrastructure


Features

- Operating frequency range: 902 to 928 MHz
- BeO free
- RoHS compliant

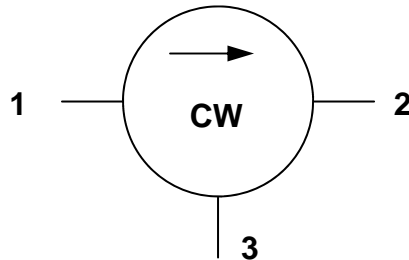


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P_{AVG}			100	W
Peak power	P_{PK}			500	W
Operating temperature range	T_{OP}		-10	+85	°C
Storage temperature range	T_{STOR}		-40	+100	°C

Note: Exceeding any of the limits listed here may result in permanent damage to the device or may reduce device reliability.

SPECIFICATION SHEET • MAFRIN0497**Table 2. Electrical Specifications (Note 1)**

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		902		928	MHz
Impedance				50		Ω
Insertion loss	IL				0.30	dB
Isolation	ISO		22			dB
Return loss	RL	PORT 1 & PORT 2	21			dB

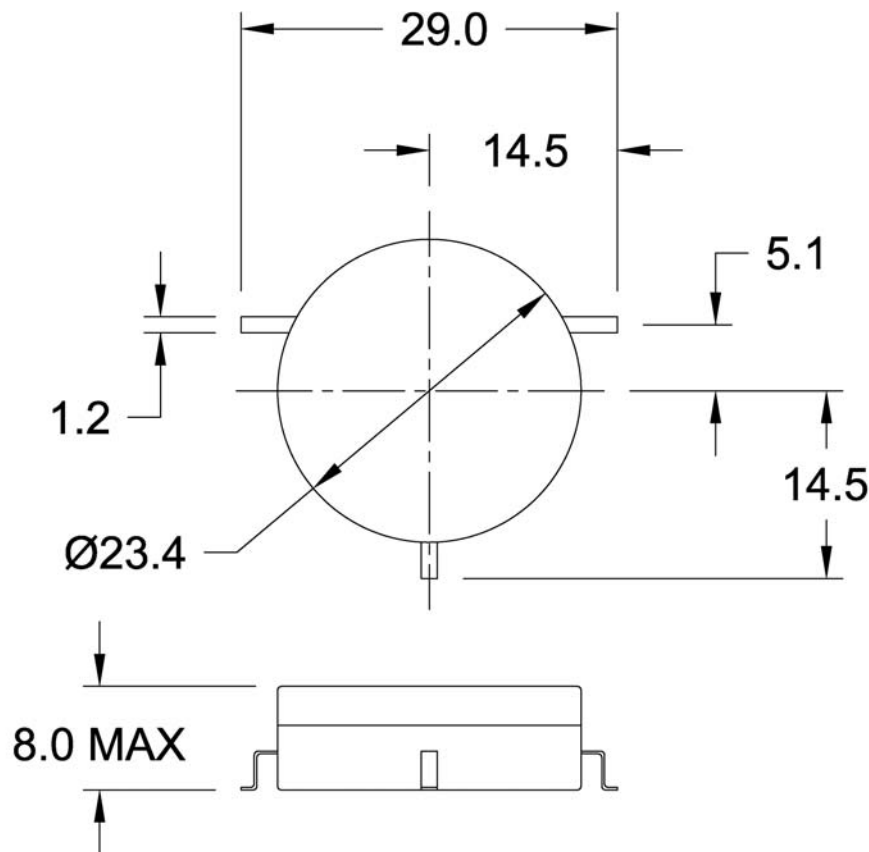
Note 1: Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

Table 3. Plating Specification

Section	Base Material	Plating
Leads	Copper	Silver
Housing	Steel	Tin

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
MAFRIN0497	MAFX-999999-000PPR



All dimensions in millimeters.

Tolerance: $\pm 0.2\text{mm}$ unless otherwise specified.

Coplanarity specification: 0.1mm maximum.

Model number, lot code and port designation printed on top side of device.

Figure 2. Package Dimensions

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