

MAFR-000159: 3400—3600 MHz Single Junction SMT Circulator

Applications

- Wireless infrastructure
- Power amplifiers



Features

- Operating frequency range: 3400 to 3600 MHz
- BeO free
- RoHS compliant

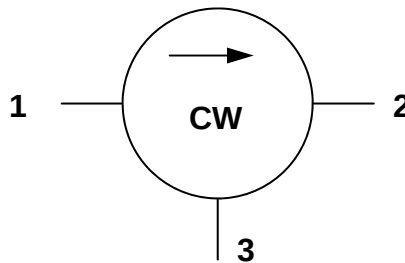


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P_{AVG}			80	W
Peak power	P_{PK}			500	W
Operating temperature range	T_{OP}		-40	+85	°C
Storage temperature range	T_{STOR}		-55	+125	°C

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

Table 2. Electrical Specifications (Note 1)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		3400		3600	MHz
Impedance				50		Ω
Insertion loss	IL			0.20	0.25	dB
Isolation	ISO		20	22		dB
Return loss	RL		20.8	22		dB

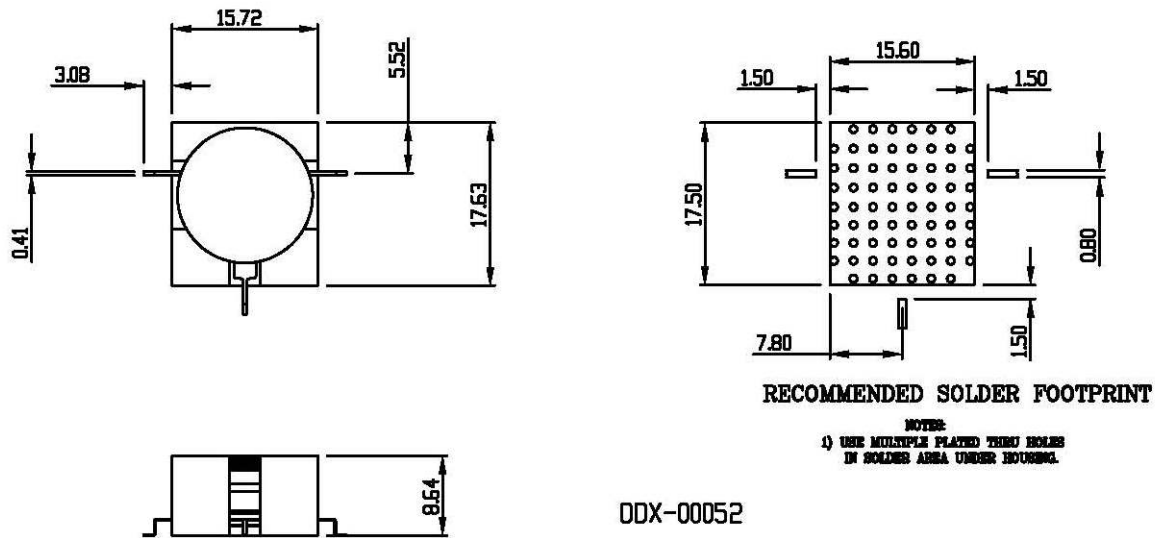
Note 1: Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

Table 3. Plating Specification

Section	Base Material	Plating
Leads	Copper	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
MAFR-000159-5S4C1T	MAFX-999999-000PPR



All dimensions in millimeters.

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

Lead thickness is 0.12mm.

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

Figure 2. Package Dimensions

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