

PRELIMINARY DATA SHEET

MAFR-000628-000001: 1200-1400 MHz Single Junction Drop-In Isolator

Applications

- Radar systems
- Power amplifiers

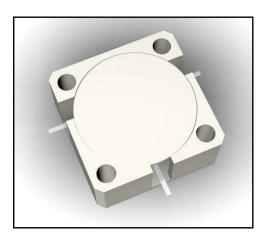
Features

- BeO free
- Operating frequency range: 1200 MHz to 1400 MHz



Skyworks Green[™] products are compliant with all applicable legislation and are halogen-free.

For additional information, refer to *Skyworks Definition of Green* ™, document number SQ04-0074.



Description

The MAFR-000628-000001 is a single-junction isolator designed for radar and Power Amplifier (PA) applications. It operates over the frequency range of 1200 MHz to 1400 MHz. Insertion loss is less than 0.30 dB over an operating temperature range of $-40~^{\circ}\text{C}$ to $+85~^{\circ}\text{C}$.

The MAFR-000628-000001 comes in an industry-recognized package designed for drop-in assembly.

A block diagram of the MAFR-000628-000001 is shown in Figure 1. The absolute maximum ratings of the MAFR-000628-000001 are provided in Table 1.

Electrical specifications are provided in Table 2. Plating information is shown in Table 3.

Figure 2 shows the package dimensions.

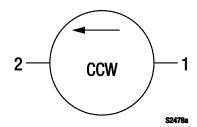


Figure 1. MAFR-000628-000001 Block Diagram

Table 1. MAFR-000628-000001 Absolute Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Units
Average power	Pavg		200	W
Peak power	PPEAK		1500	W
Reverse power	Prev		2	W
Operating temperature	Тор	-40	+85	°C
Storage temperature	Тѕт	- 55	+125	°C

Note: Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the device.

Table 2. MAFR-000628-000001 Electrical Specifications (Note 1) (ToP = -40 °C to +85 °C)

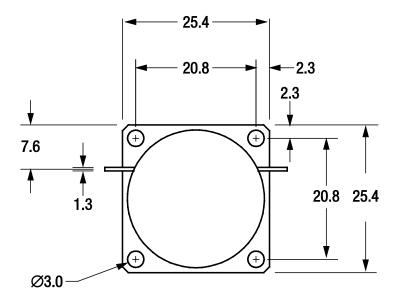
Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		1200		1400	MHz
Impedance				50		Ω
Insertion loss	IL				0.30	dB
Isolation	lso		20			dB
Return loss	RL		20			dB

 $\textbf{Note 1}: \ \textbf{Performance} \ \textbf{is guaranteed only under the conditions listed in this Table}.$

Note 2: See Skyworks Application Note, Intermodulation Distortion Measurements of Ferrites, document number 201537 for further details.

Table 3. MAFR-000628-000001 Plating

Section	Material	Plating
Leads	Copper	Silver
Housing	Steel	Nickel



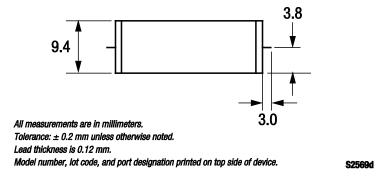


Figure 2. MAFR-000628-000001 Package Dimensions

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
MAFR-000628-000001 Single Junction Drop-In Isolator	MAFR-000628-000001	MAFX-999999-000PPR

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