

SKYFR-000856: 1930 - 1990 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers



Features

- Operating frequency range: 1930 to 1990 MHz
- BeO free
- RoHS compliant

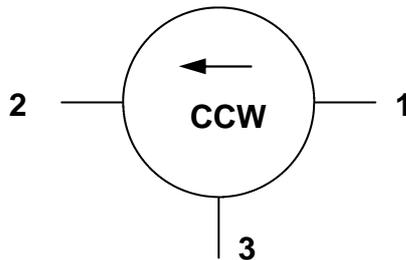


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Input power	P			70	W
Peak power	P _{PK}			200	W
Reverse power	P			70	W
Operating temperature range	T _{OP}		-40	+90	°C
Storage temperature range	T _{STOR}		-40	+125	°C

Note: The power rating and reliability of the device will not degrade with an operating temperature of up to +130°C. Exceeding +130°C or 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		1930		1990	MHz
Impedance				50		Ω
Insertion loss	IL			0.2	0.25	dB
Isolation	ISO		25	28		dB
Isolation	ISO	1870MHz—2050MHz	18			dB
Return loss	RL		21			dB
Intermodulation distortion (Note 2)	IMD	2 x 25W CW tones, 1MHz spacing	70			dBc
Group delay		1870MHz—2050MHz			2.0	ns
Group delay variation					0.5	ns
Attenuation			29		31	dB
Harmonics		3860MHz—3980MHz	15			dB
Harmonics		5790MHz—5970MHz	6			dB

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

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

Note 3: Performance will not degrade by <10% with an operating temperature of up to +100°C.

Note 4: Performance will not degrade by <30% with an operating temperature from +100°C to +130°C .

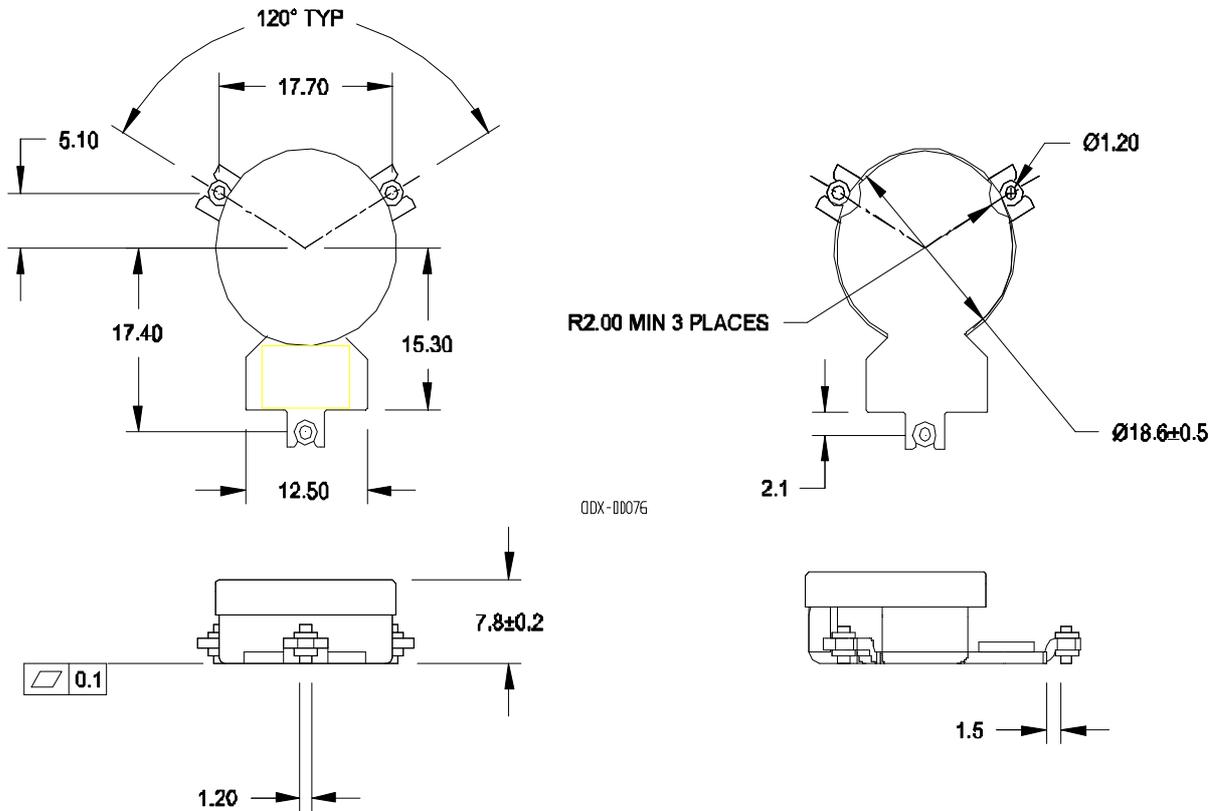
Table 3. Plating Specification

Section	Base Material	Plating
Pin	Bronze	Gold
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
SKYFR-000856	MAFX-999999-000PPR

SPECIFICATION SHEET • SKYFR-000856



All dimensions in millimeters.
 Tolerance: ±0.2mm unless otherwise specified.
 Model number, lot code and port designation printed on top side of device.

Figure 2. Package Dimensions

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