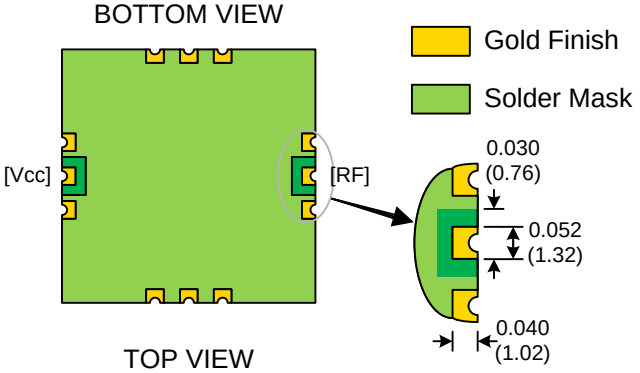
CRYSTEK MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

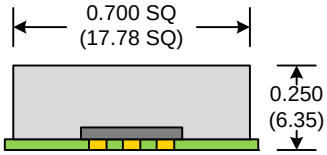
RF Source
CRFS75-1244.160

PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Output Frequency:		1244.160		MHz
Frequency Accuracy:		±150		ppm
Operating Temperature Range:	-40		+85	°C
Output Power:	+5.0			dBm
Input Power:	4.75	5.0	5.25	VDC
Input Current:		30	50	mA
2nd Harmonic:		-20	-15	dBc
Sub-Harmonic:			-50	dBc
Phase Noise @ 1kHz offset:		-105		dBc/Hz
Phase Noise @ 10kHz offset:		-133		dBc/Hz
Phase Noise @ 100kHz offset:		-144		dBc/Hz
Phase Noise @ 1MHz offset:		-165		dBc/Hz
Phase Noise @ 10MHz offset:		-166		dBc/Hz
Phase Noise @ 40MHz offset:		-166		dBc/Hz

BOTTOM VIEW

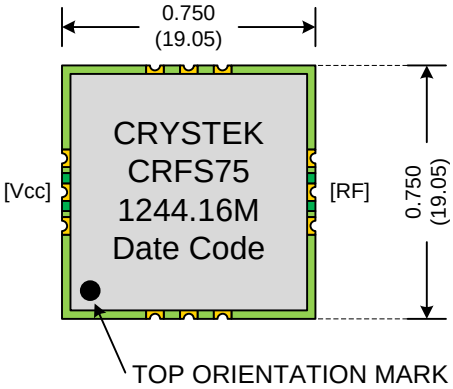


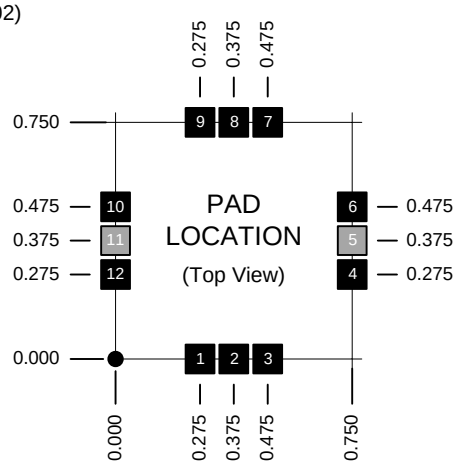
SIDE VIEW



RoHS Compliant

TOP VIEW





Pad	Connection
5 11 Others	RF-OUTPUT Vcc GROUND

- Unless otherwise specified, Dimensions are in: IN / (mm)
- Pad Location Dimensions are in: Inches

Product Control:			
Crystek Part Number:	CRFS75-1244.160	Release Date:	29-Jul-2013
Revision Level:	B	Responsible:	C. Vales

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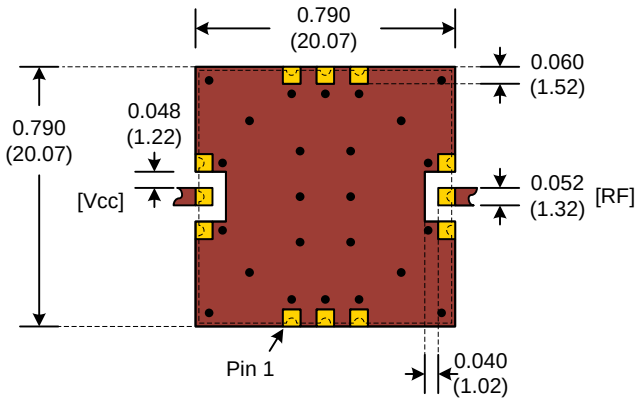
Suggested PCB Layout



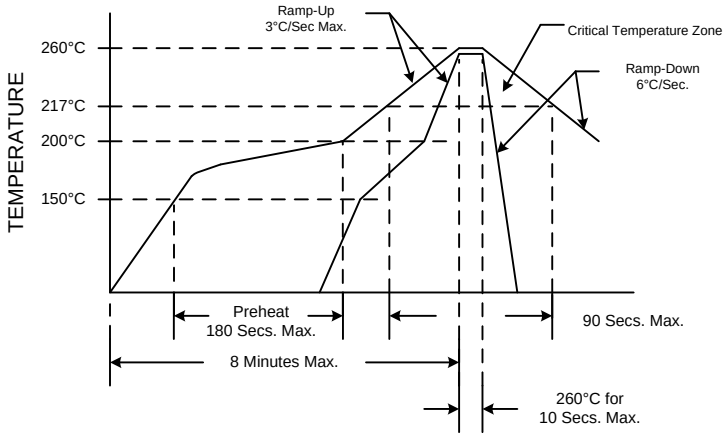
● Unless otherwise specified, Dimensions are in: IN / (mm)

Notes: 1. Taper RF Line to match board geometry for a 50 ohm line

2. Denotes Copper on Mother Board (SMOBC)

3. Denotes No Mask

RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

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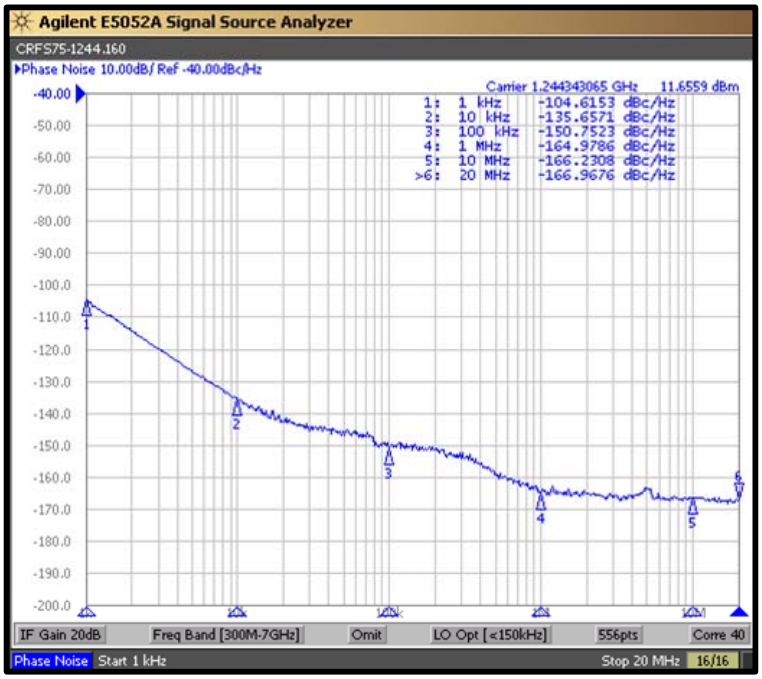

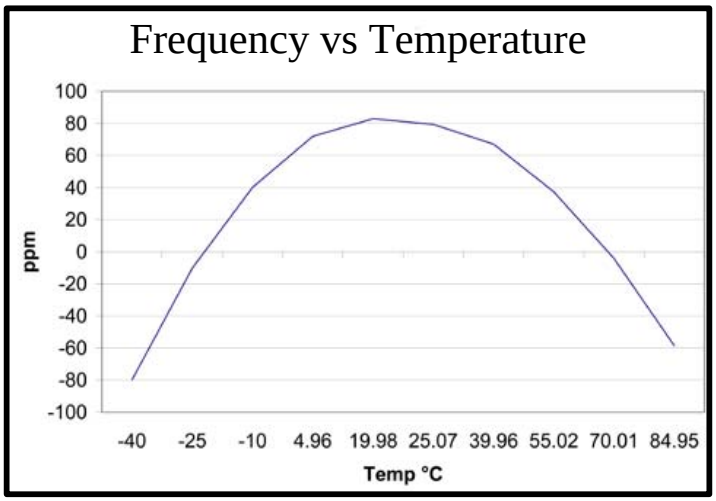

Parameter	Conditions
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Mechanical Vibration	MIL-STD-883, Method 2007, Condition A
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-202, Method 215
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition I or J
Thermal Shock	MIL-STD-883, Method 1011, Condition A
Moisture Resistance	MIL-STD-883, Method 1004

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