



Low Cost Frequency Doubler

CSFD25

Features

INPUT: 10 TO 2400 MHzOUTPUT: 20 TO 4800 MHz

• INPUT DRIVE LEVEL +10 dBm (NOMINAL)

SURFACE MOUNT

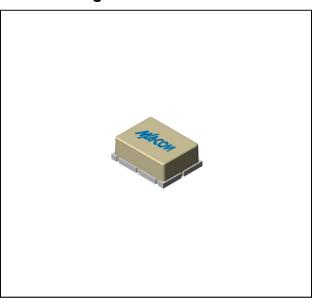
Description

The CSFD25 is a passive bridge diode frequency doubler, designed for use in the high volume wireless and test equipment applications. The design utilizes Schottky bridge quad diodes and broadband baluns to attain excellent performance. Due to the use of high temperature solder and welded assembly processes used internally makes it ideal for use in semi-automated and automated assembly. Environmental screening available to MIL-STD-883, MIL-STD-202 or MIL-DTL-28837, consult factory.

Ordering Information

Part Number	Package
CSFD25	Surface Mount

Product Image



Electrical Specifications: $Z_0 = 50\Omega$ $P_{in} = +10$ dBm

	Total Occalitions	Units	Typical	Guaranteed	
Parameter	Test Conditions			+25°C	-40° to +85°C
SSB Conversion Loss (max)	f _{in} = 10 to 2400 MHz	dB	11.5	13.0	13.5
Suppression Fundamental (min)	f_{in} = 10 to 1000 MHz f_{in} = 1000 to 2000 MHz f_{in} =2000 to 2400 MHz	dBc dBc dBc	35 25 20	25 20 16	23 18 14
Third Harmonic Suppression (min)	f_{in} = 10 to 500 MHz f_{in} = 500 to 1000 MHz f_{in} = 1000 to 2400 MHz	dBc dBc dBc	50 40 35	40 30 25	38 28 23
Input VSWR	f _{in} = 10 to 2400 MHz		2.0:1		

North America Tel: 800.366.2266 / Fax: 978.366.2266

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

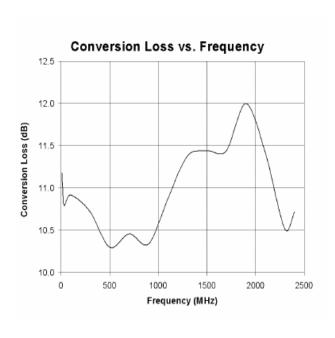


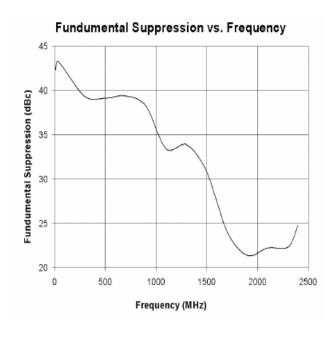


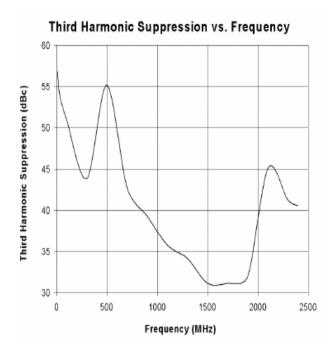
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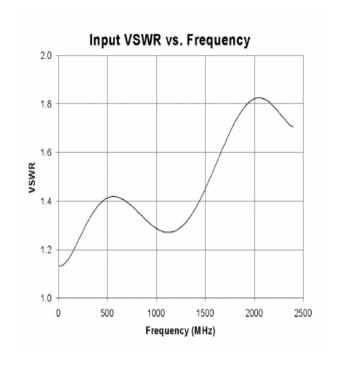
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Typical Performance Curves









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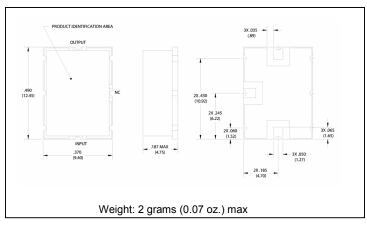
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Absolute Maximum Ratings

Parameter	Absolute Maximum		
Operating Temperature	-54°C to +85°C		
Storage Temperature	-65°C to +100°C		
Peak Input Power	+23 dBm max @ +25°C +20 dBm max @ +100°C		

Outline Drawing: Surface Mount



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

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