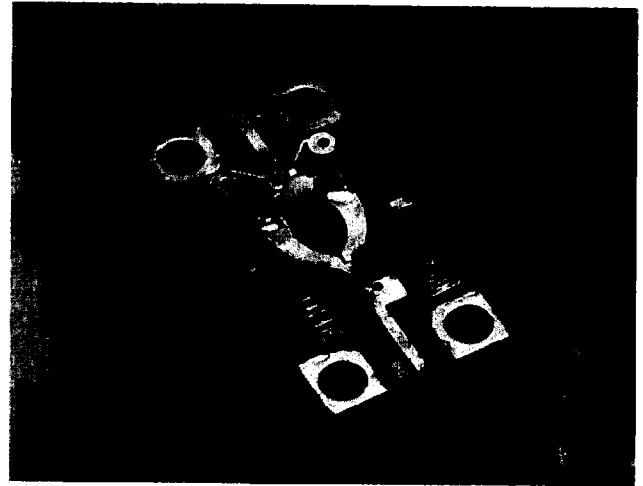




FDC2710

FREQUENCY DOUBLER FOR MICROWAVE TELECOMMUNICATION LINKS

- ◆ INPUT FREQUENCY 3.5 to 8.0 GHz
- ◆ OUTPUT FREQUENCY 7.0 to 16.0 GHz
- ◆ INPUT DRIVE LEVEL: +10 dBm (NOMINAL)
- ◆ LOW COST MICROSTRIP INTERFACE



Specifications*

Characteristics	Typical	Guaranteed	
		+25°C	-40°C to +70°C
Conversion Loss			
f_{IN} 3.5 to 4.5 GHz	13.0 dB	14.0 dB	14.5 dB
f_{IN} 4.5 to 7.0 GHz	10.2 dB	12.5 dB	13.0 dB
f_{IN} 7.0 to 8.0 GHz	11.2 dB	13.5 dB	14.0 dB
Fundamental Suppression			
f_{IN} 3.5 to 6.5 GHz	40 dBc	28 dBc	26 dBc
f_{IN} 6.5 to 8.0 GHz	40 dBc	30 dBc	28 dBc
Third Harmonic Suppression			
f_{IN} 3.5 to 8.0 GHz	50 dBc	40 dBc	38 dBc

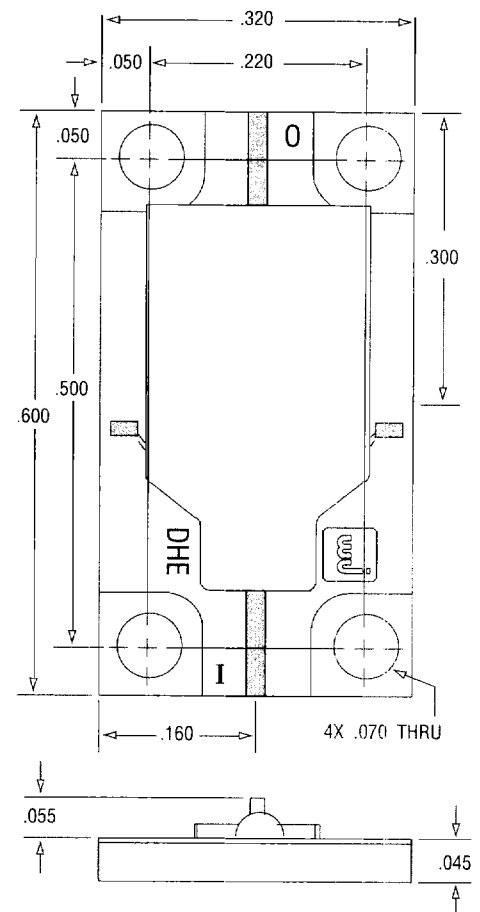
* Measured in a 50-ohm system with nominal LO drive and downconverter application only, unless otherwise specified.
Typical values are measured at +25°C and are not guaranteed.

Absolute Maximum Ratings

Operating Temperature -54°C to +100°C
 Storage Temperature -65°C to +100°C
 Peak RF Input Power +23 dBm at 25°C; +20 dBm at +100°C

Weight 0.15 Grams (0.005 oz.)

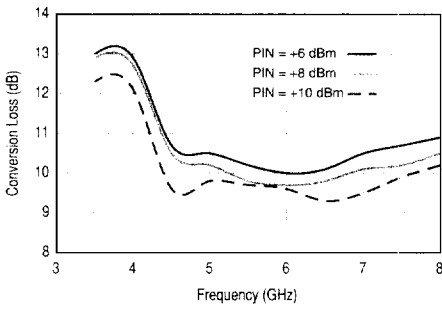
Outline Drawing



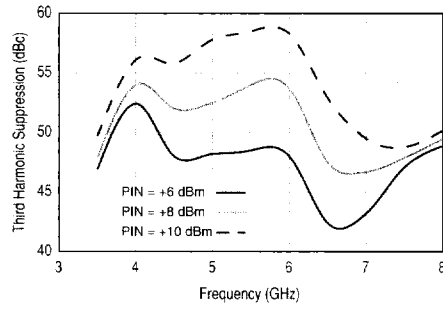
DIMENSIONS ARE IN INCHES
±.015 UNLESS OTHERWISE SPECIFIED.

WJ-FDC2710 Typical Performance at +25°C

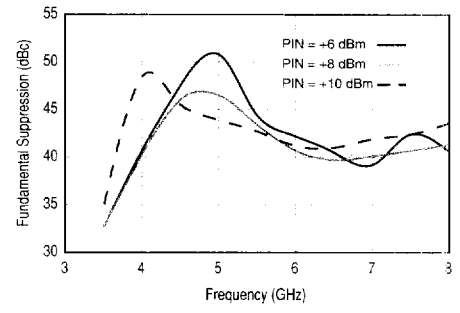
Conversion Loss



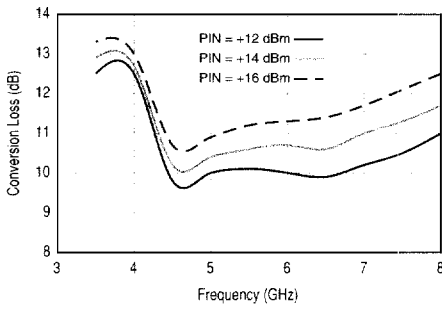
Third Harmonic Suppression



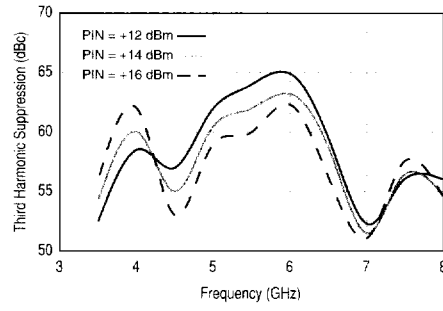
Fundamental Suppression



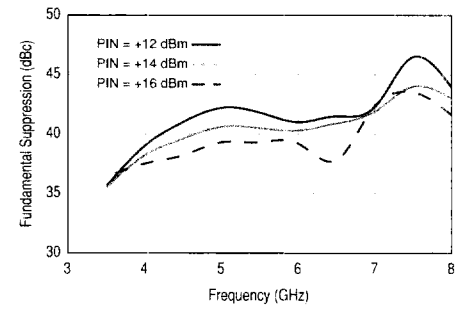
Conversion Loss



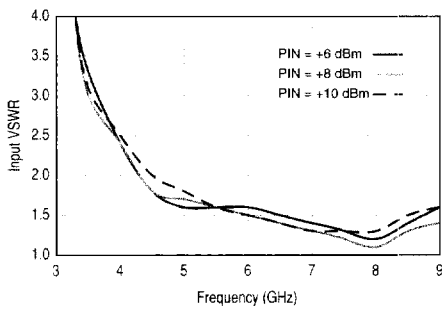
Third Harmonic Suppression



Fundamental Suppression



Input VSWR



Input VSWR

