

Frequency Doubler

High Isolation, In-line Output
 Input 5 to 2800 MHz, Output 10 to 5600 MHz

Electrical Specifications⁽¹⁾

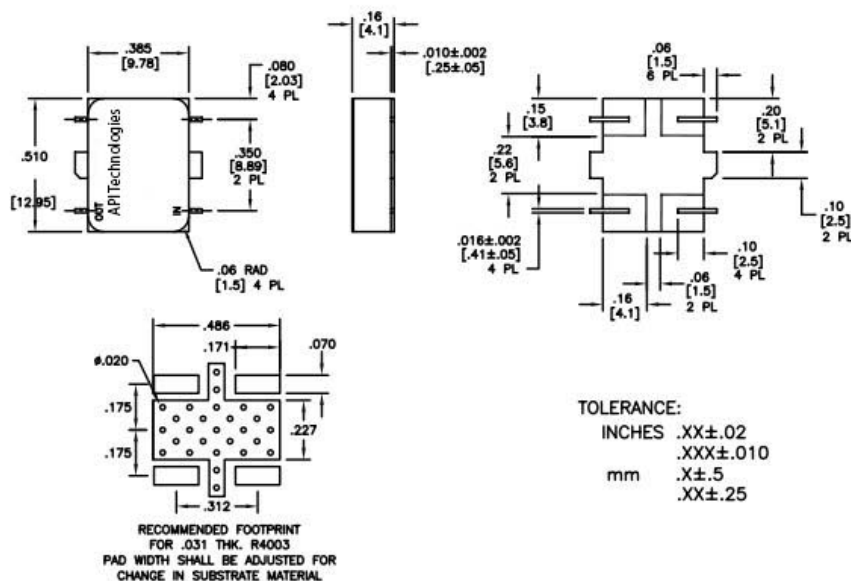
Parameter	Conditions		Specification		
	Input (MHz)	Output (MHz)	Min	Typical	Max
Insertion loss: ⁽²⁾	5-2000 2000-2800	10-4000 4000-56000		11.5 dB 12.3 dB	13.0 dB 14.0 dB
Fundamental Isolation: ⁽³⁾	5-500 500-2000 2000-2800	10-1000 1000-4000 4000-5600	25 dB 30 dB 20 dB	35 dB 40 dB 35 dB	
Third Harmonic Suppression: ⁽⁴⁾	5-2800	10-5600	20 dBc	33 dBc	
Input VSWR:	5-500 500-2000 2000-2800	10-1000 1000-4000 4000-5600		1.5:1 1.7:1 1.5:1	
Input Power:	5-2800	10-5600		+11 dBm	

Notes:

1. Specifications are guaranteed when tested as a doubler in a 50 Ohm system from +25°C with nominal input power. Specifications indicated as typical are not guaranteed.
2. Insertion loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
3. Fundamental isolation is referenced to the fundamental input.
4. Third Harmonic Suppression is references to the second harmonic output.

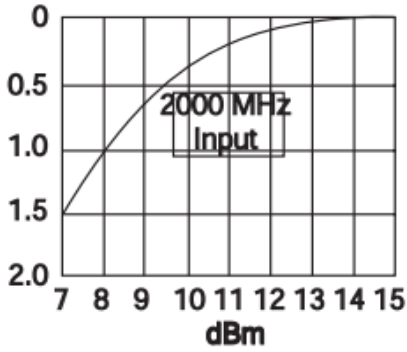
Outline Drawings

All dimensions are in inches and [mm].

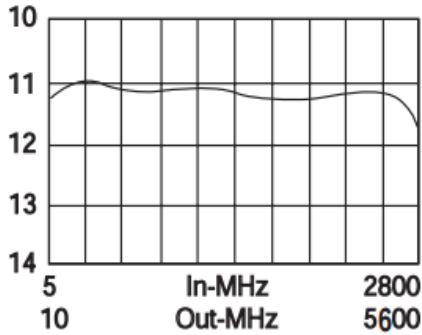


Typical Performance at 25°C

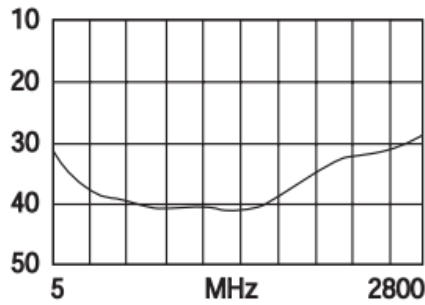
Relative Loss vs. Input Power – dB



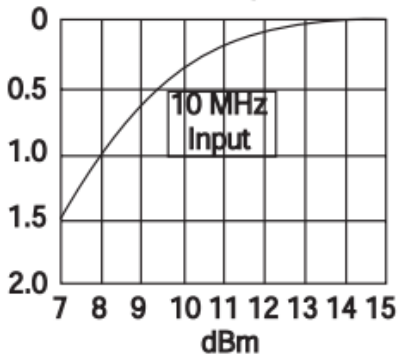
Insertion Loss – dB



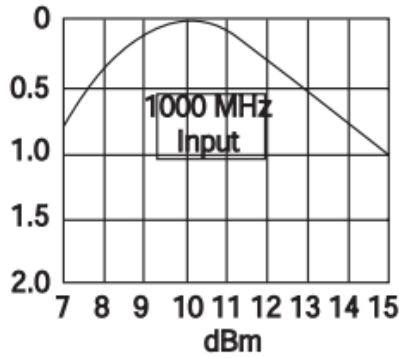
Fundamental Isolation – dB



Relative Loss vs. Input Power – dB



Relative Loss vs. Input Power – dB



Third Harmonic Suppression - dBc

