

Frequency Doubler

Model FD34SM-1

High Isolation, In-line Output

Input 5 to 2800 MHz

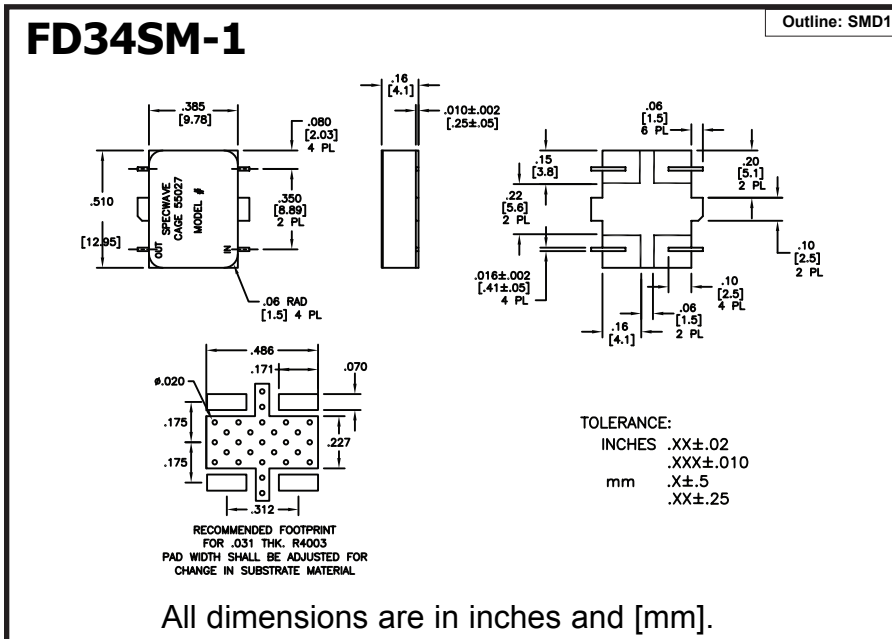
Output 10 to 5600 MHz

Electrical Specifications:⁽¹⁾

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

Notes:

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



Typical Performance at 25°C

