

Frequency Doubler

High Isolation, In-line Output

Model FD34SM-1

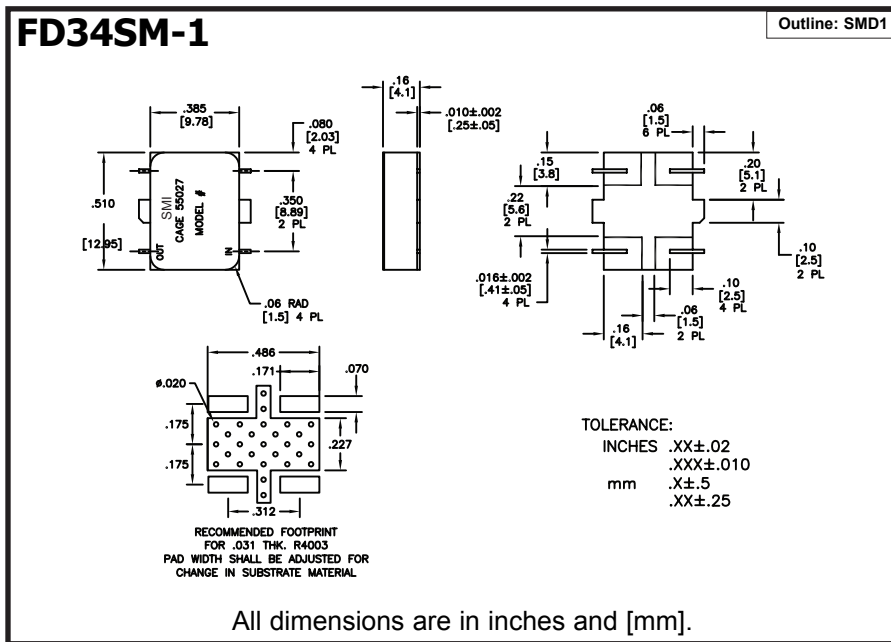
Input 5 to 2800 MHz
Output 10 to 5600 MHz

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

