

REMEC

Frequency Doubler

High Isolation, In-line Output

Input 2.0 to 10.0 GHz
Output 4.0 to 20.0 GHz

Electrical Specifications ⁽¹⁾:

Parameter	Conditions		Specifications		
	Input (GHz)	Output (GHz)	Min	Typical	Max
Insertion Loss: ⁽²⁾	2.0-9.0	4.0-18.0		11.0 dB	13.0 dB
	2.0-10.0	4.0-20.0		11.5 dB	15.0 dB
Fundamental Isolation: ⁽³⁾	2.0-10.0	4.0-10.0	25 dB	32 dB	
Third Harmonic Suppression: ⁽⁴⁾	2.0-10.0	4.0-20.0	20 dBc	26 dBc	
Input VSWR:	2.0-5.0	4.0-10.0		2.5:1	
	5.0-10.0	10.0-20.0		1.8:1	
Input Power:	2.0-10.0	4.0-20.0		+11 dBm	FD96
				+17 dBm	FD97

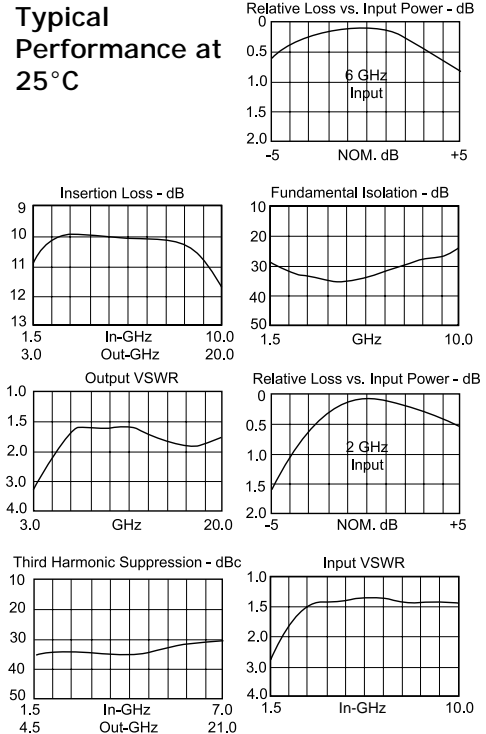
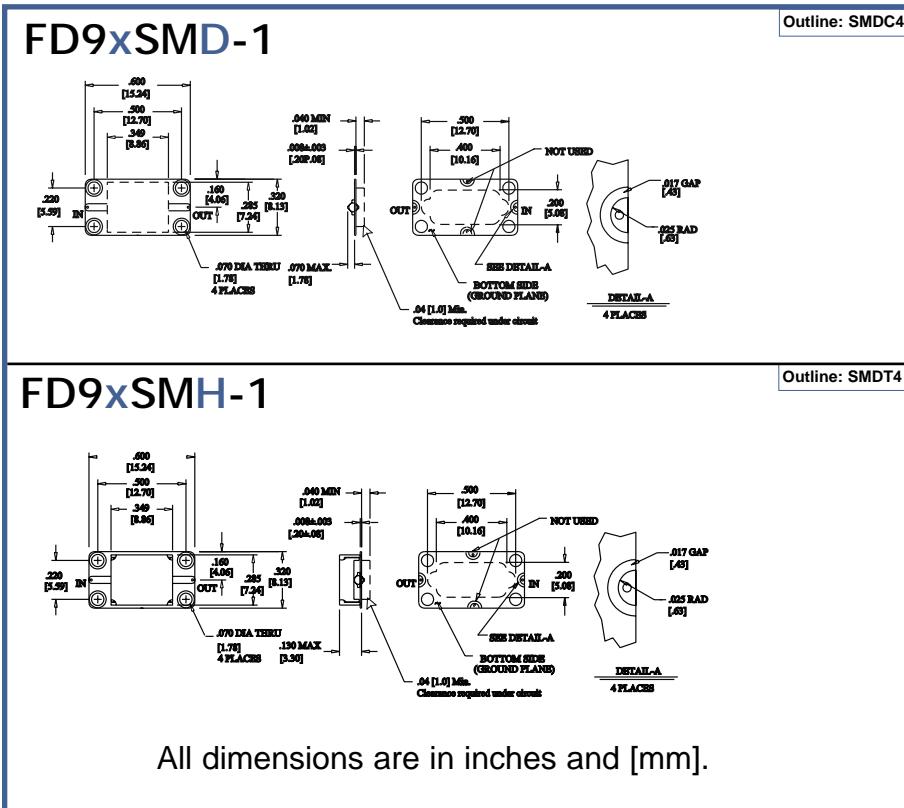
FD9xSMx-1

Input Power
6 = +11 dBm
7 = +17 dBm

D = No Cover
H = With Cover

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.
- For SMH models, isolation loss for 2-10-0 GHz is 13.5 dB max, fundamental isolation is 20 dB min.



Specifications subject to change without notice.