

FDMP20401

2.0 TO 10.0 GHz: INPUT 4.0 TO 20.0 GHz: OUTPUT FREQUENCY DOUBLER

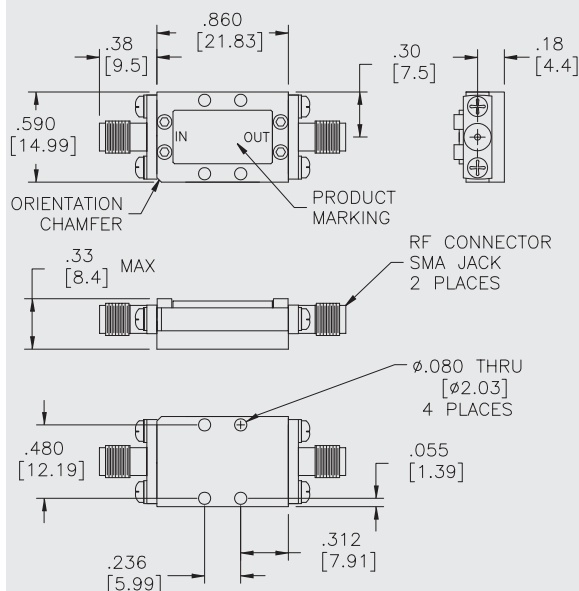
Typical Values

Input Frequency	2.0 - 10.0 GHz
Output Frequency	4.0 - 20.0 GHz
Conversion Loss	10.5 dB
Input Drive (nominal)	+10.0 dBm
High Fundamental Suppression	40.0 dBc
Seam Sealed Hermetic Cougar MixerPak Package	

FDMP20401

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Cougar MixerPak for Frequency Doubler



SPECIFICATIONS*

Guaranteed
-55 to +85 °C
Max.
(dB)

Parameter	Port	Frequency (GHz)	Typ. (dB)	Max. (dB)
SSB Conversion Loss and SSB Noise Figure	f _{IN}	3.0 to 8.0	10.0	11.5
	f _{OUT}	6.0 to 16.0	10.0	11.5
		2.0 to 10.0	10.5	12.0
		4.0 to 20.0	10.5	12.0
Suppression [^]			Typ. (dB)	Min. (dB)
	Fundamental	f _{IN} 2.0 to 10.0	32	25
	Third Harmonics	f _{IN} 2.0 to 4.0	50	40
		f _{IN} 4.0 to 8.0	38	28
		f _{IN} 8.0 to 10.0	45	32
	Fifth Harmonics	f _{IN} 2.0 to 10.0	50	40

* Measured in a 50-ohm system with nominal Input drive of +10 dBm.

[^] Fundamental and harmonic suppression is referenced to the fundamental input.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-65 to +125 °C
Peak Input Power	+23 dBm @ 25 °C
	derate to +17 dBm @ 100 °C
Peak Input Current @ 25°C	50 mA DC

DIMENSIONS ARE IN INCHES [MILLIMETERS]

TYPICAL PERFORMANCE

KEY: +25 °C —
+85 °C - - -
-55 °C - · - ·

