

50Ω Divide-BY-8, DC-8 GHz

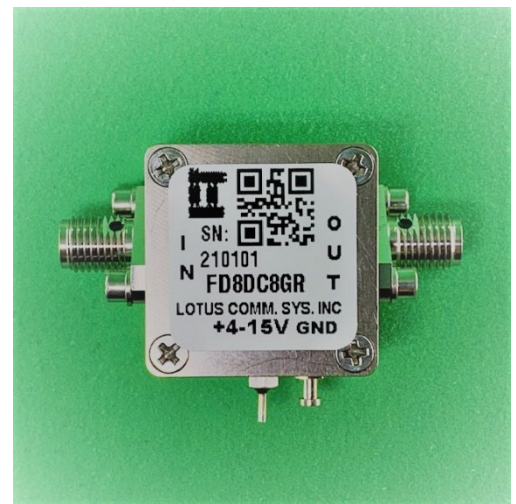
Enclosure PN#: 6DD4W6H41SA20

Features:

- Divide by M: (M = 8)
- Input frequency range: DC-8 GHz
- Low additive phase noise
- Rugged, shielded case (SMA Connector)
- Wide Voltage Operation: +4~15V
- EMI Shield & Weatherproof Option Available (PN#: FD8DC8GRW)

Applications:

- Cellular, Satellite Communication Systems
- PCS, W-CDMA
- ISM, LTE
- SDR & Ham Radio

**Electrical Specifications (Test Conditions: T_A = +25°C, 50 Ohm System, V_{cc}=+5V)**

No.	Parameter	Conditions	Electrical Specification			
			MIN	TYP.	MAX	UNITS
1	Maximum Input Freq.		8	8.5		GHz
2	Minimum Input Freq.	Sine Wave Input [1]		0.2		GHz
3	Input Power Range	Fin = 1 to 7 GHz	-10		+10	dBm
		Fin = 7 to 8 GHz	0		+10	
4	Output Power	Fin = 4 GHz	-5	-2		dBm
		Fin = 8 GHz	-5	-2		dBm
5	Reverse Leakage	RF Output Terminated, Fin=4 GHz, Pin=0 dBm		-20		dBm
6	SSB Phase Noise (100 kHz offset)	Pin=0 dBm, Fin=4 GHz		-150		dBc/Hz
7	Output Transition Time	Pin=0 dBm, Fout=882 MHz		140		Ps
8	Supply Voltage (Vcc)		4	5	15	Volt
8	Supply Current (Icc)	Vcc = 5.0 V		62	83	mA

1. Divider will operate down to DC for square-wave input signal.

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	RF Input Power	15	dBm
2	Storage Temperature	-65 to +125	°C
3	Operating Temperature	-40 to +85	°C



Outline Drawing (Inch)

