

50Ω Divide-BY-8, DC-8 GHz

Case PN: 6UDD2W6S1A2

Features:

- Divide by M: (M = 8)
- Input frequency range: DC-8 GHz
- Low additive phase noise
- Rugged, shielded case (SMA Connector)

Applications:

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



Electrical Specifications (Test Conditions: $T_A = +25^\circ\text{C}$, 50 Ohm System, $V_{cc} = +3\text{V}$)

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	$F_{in} = 1$ to 3 GHz	-10		+10	dBm
		$F_{in} = 3$ to 8 GHz	0		+10	
4	Output Power	$F_{in} = 1$ GHz to 8 GHz	-5	-2		dBm
5	Reverse Leakage	RF Output Terminated, $F_{in} = 4$ GHz, $P_{in} = 0$ dBm		-20		dBm
6	SSB Phase Noise (100 kHz offset)	$P_{in} = 0$ dBm, $F_{in} = 4$ GHz		-150		dBc/Hz
7	Output Transition Time	$P_{in} = 0$ dBm, $F_{out} = 882$ MHz		140		Ps
8	Supply Current (I_{cc})	$V_{cc} = 3.0$ V		62	83	mA
9	Supply Voltage (V_{cc})		2.85	3	3.15	V

1. Below 200 MHz, a square wave input is required. Divider will operate down to DC for square-wave input signal.

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	RF Input Power ($V_{cc} = +3\text{V}$)	15	dBm
2	Storage Temperature	-65 to +125	$^\circ\text{C}$
3	Operating Temperature	-40 to +85	$^\circ\text{C}$

Outline Drawing (Inch)

