

**50Ω Divide-BY-2, 4-18 GHz**

Case PN: 6UDD2W6S1A2

**Features:**

- Divide by M: (M = 2)
- Ultra Low SSB Phase Noise -147 dBc/Hz
- Input frequency range: 4-18 GHz
- Output Power: -5 dBm
- Single DC Supply: +3.3V
- Low Power Consumption: 30 mA
- 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,  $V_{CC} = +3.3\text{V}$ )**

No.	Parameter	Conditions	Electrical Specification			
			MIN	TYP.	MAX	UNITS
1	Input Freq.		4		18	GHz
2	Input Power Range		-10		+10	dBm
3	Output Power		-10	-5		dBm
4	Reverse Leakage	RF Output Terminated, Pin=0 dBm, Fin=8 GHz		-60		dBm
5	SSB Phase Noise (100 kHz offset)	Pin=0 dBm, Fin=12 GHz		-147		dBc/Hz
6	Power Supply		3.0	3.3	3.6	V
7	Supply Current (Icc)	$V_{CC} = 3.3\text{ V}$		30	60	mA

**Absolute Maximum Ratings**

Item	Parameter	Rating	UNITS
1	RF Input Power ( $V_{CC} = +5\text{V}$ )	10	dBm
2	$V_{CC}$	+3.9	V
3	Storage Temperature	-65 to +150	$^\circ\text{C}$
4	Operating Temperature	-40 to +105	$^\circ\text{C}$

**Outline Drawing (Inch)**