

50Ω Divide-BY-4, DC-18 GHz

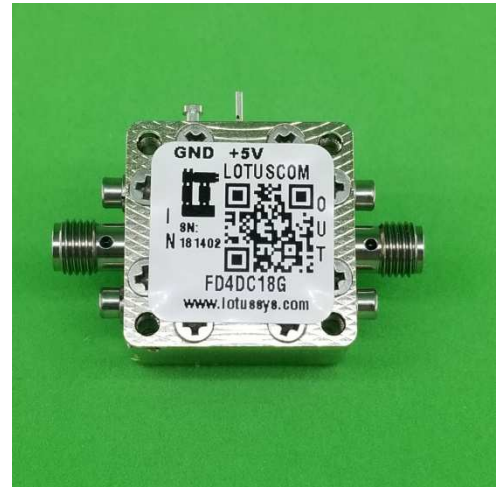
Case PN: 6UDD2W6S1A2

Features:

- Divide by M: (M = 4)
- Ultra Low SSB Phase Noise -150 dBc/Hz
- Input frequency range: DC-18 GHz
- Output Power: -4 dBm
- Single DC Supply: +5V
- Low Power Consumption: 96 mA
- Rugged, shielded case (SMA Connector)

Applications:

- Cellular, Satellite Communication Systems
- PCS, W-CDMA, ISM, LTE
- SDR & Ham Radio/Fiber Optic/Test Equipment

**Electrical Specifications (Test Conditions: $T_A = +25^\circ\text{C}$, 50 Ohm System, $V_{CC}=+5\text{V}$)**

No.	Parameter	Conditions	Electrical Specification			
			MIN	TYP.	MAX	UNITS
1	Maximum Input Frequency		18	18.5		GHz
2	Minimum Input Frequency	Since Wave Input [Note 1]		0.2	0.5	GHz
3	Input Power Range	$F_{in} = 2$ to 14 GHz	-20	-15	+10	dBm
		$F_{in} = 14$ to 16 GHz	-20	-15	+5	dBm
		$F_{in} = 16$ to 18 GHz	-15	-10	0	dBm
4	Output Power	$F_{in} = 0.5$ to 18 GHz	-7	-4		dBm
5	Reverse Leakage	RF Output Terminated, $P_{in}=0$ dBm		-55		dBm
6	SSB Phase Noise (100 kHz offset)	$P_{in}=0$ dBm, $F_{in}=6$ GHz		-150		dBc/Hz
7	Output Transition Time	$P_{in} = 0$ dBm, $F_{out} = 882$ MHz		100		ps
8	Supply Current (I_{CC})	$V_{CC} = 5$ V		96		mA

Note 1: Divider will operation down to DC for Square-wave input signal

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	RF Input Power ($V_{CC} = +5\text{V}$)	+13	dBm
2	V_{CC}	+5.5	V
3	Storage Temperature	-65 to +150	$^\circ\text{C}$
4	Operating Temperature	-40 to +105	$^\circ\text{C}$

Outline Drawing (Inch)