

50Ω Multiply-BY-2, Output 4G-14 GHz

Case PN: 6UDD2W6S1P2

Features:

- **Multiply by M: (M = 2)**
- **Low Conversion Loss, 12 dB**
- **Good fundamental and harmonic suppression:
F1, 30 dBc; F3, 32dBc**
- **Rugged, shielded case (SMA Connector)**

Applications:

- **Synthesizers, Local Oscillators**
- **Cellular, Satellite Communication Systems**
- **PCS/W-CDMA**
- **ISM, LTE, SDR & Ham Radio**

**Electrical Specifications (Temperature = 25°C, Vcc = +5V, +4 dBm Drive Level)**

Parameter		Input Freq. (GHz)	Min.	Typ.	Max.	Units
Frequency Range, Input				2 – 7		GHz
Frequency Range, Output				4 – 14		GHz
Input Power Range			0		+6	dBm
Output Power			12		+18	dBm
Conversion Loss		2 – 4	--	12	14.5	dB
		4 – 7	--	13	19.2	
Harmonics Output*	F1	2 – 4	19	30	--	dBc
		4 – 7	17	27	--	dBc
	F3	2 – 4	20	32	--	dBc
		4 – 7	21	39	--	dBc
	F4	2 – 4	11	17	--	dBc
		4 – 7	12	27	--	dBc

*Harmonics of input frequency below the power level of F2 (output)

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	RF Input Power, 25 °C	+21	dBm
2	Storage Temperature	-65 to +150	°C
3	Operating Temperature	-40 to +85	°C



- Outline Drawing (inch)

