

**50Ω Divide-BY-4, 10-26 GHz**

Case PN: 6UDD2W605A2

**Features:**

- Divide by M: (M = 4)
- Ultra Low SSB Phase Noise -150 dBc/Hz
- Input frequency range: 10-26 GHz
- Output Power: -4 dBm
- Single DC Supply: +5V
- Low Power Consumption: 96 mA
- Rugged, shielded case (Input 2.92mm connector, Output SMA Connector)

**Applications:**

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

**General Description**

FD410G26G is a low noise divide-by-4 active broadband frequency divider GaAs HBT technology. This wideband divider operates with input frequency from 10 to 26 GHz and accepts very wide range of input power level from -15 to 10 dBm. The divider exhibits a very low SSB Phase noise of -150 dBc/Hz at 100 kHz offset, making it ideal for use in high frequency PLL and LO applications.

The divider consumes only 96mA from single power supply of +5V. The input connector is 2.92mm Steel Connector and Output connector is SMA Steel Connector.

**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		26	27		GHz
2	Minimum Input Frequency			9	10	GHz
3	Input Power Range	Fin = 10 to 14 GHz	-15	-20	+10	dBm
		Fin = 14 to 18 GHz	-15	-20	+5	dBm
		Fin = 18 to 20 GHz	-10	-15	+10	dBm
		Fin = 20 to 22 GHz	-5	-10	+10	dBm
		Fin = 22 to 26 GHz	0	-5	+10	dBm
4	Output Power	Fin = 10 to 26 GHz	-7	-4		dBm
5	Reverse Leakage	RF Output Terminated		50		dB
6	SSB Phase Noise (100 kHz offset)	Pin=0 dBm, Fin=22 GHz		-150		dBc/Hz
7	Supply Current (Icc)	Vcc = 5 V	68	78	90	mA



## Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	RF Input Power (Vcc = +5V)	+13	dBm
2	Vcc	+5.5	V
3	Storage Temperature	-65 to +150	°C
4	Operating Temperature	-40 to +85	°C

## Outline Drawing (Inch)

