

LO Power +9 to 13 dBm

Case PN: 6UDD2W6O5P3

Features:

- **Frequency Range: 2.25 to 18 GHz**
- **High Input IP3: 20 dBm typical**
- **LO to RF Isolation: 25 dB typical**
- **LO to IF Isolation: 20 dB typical**
- **RF to IF Isolation: 15 dB typical**
- **IF frequency range: DC to 4 GHz**
- **High Quality Rogers RO4350 RF PCB**
(very low loss and high thermal performance)
- **ROHS Compliant**
- **Operating Temp. (-40°C to 85°C)**

Applications:

- **Ka band transponders**
- **Satellite up/down converter**
- **Mobile Infrastructure**
- **VSAT/ISM**
- **General Purpose Wireless**
- **SDR & Ham Radio**
- **Test Instrumentation**

Product Overview:

MIX2P25G18G is a MMIC double balanced mixer that can be used as a downconverter with DC to 4GHz at the IF Frequency port and 2.25 GHz to 18 GHz at RF port. It provides excellent LO to RF, LO to IF and RF to IF isolation. The mixer operates with LO drive levels from 9 dBm to 17 dBm.



Electrical Specifications:

Item	Parameter	Symbol	Min	Typ	Max	Units
1	RF Frequency	f_{RF}	2.25		18	GHz
2	IF Frequency	f_{IF}	DC		4	GHz
3	LO Frequency	f_{LO}	2.25		18	GHz
4	LO Drive Level		9	13	17	dBm
5	Conversion Loss			10	14	dB
6	Single Sideband Noise Figure	SSB NF		10		dB
7	Input Third-order Intercept	IP3		20		dBm
8	Input 1dB Compression Point	P1dB		11		dB
9	RF to IF Isolation		8	20		dB
10	LO to RF Isolation		25	30		dB
11	LO to IF Isolation		25	30		dB

Measurement are performed for IF = 100MHz, RF Power = -10dBm and LO Power = 13dBm



Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	Max RF input Power	16	dBm
2	LO Input Power	20	dBm
3	IF Input Power when LO = 18 dBm	16	dBm
4	Continuous Power dissipation	235	mW
5	Max Storage Temperature	-65 to +150	°C
6	Operating Temperature	-40 to 85	°C

Outline drawing (inch)

