

# Transmitter Four-port Frequency Converter

## ● SPECIFICATIONS

Parameters	Min	Typ	Max	Unit
Supply Voltage (Vdd)	5	5	9	V
Supply Current (Idd)		1.67		A
RF Output				
Output Frequency		28		GHz
Output Power			13	dBm
Output Impedance		50		$\Omega$
LO Input				
Input Frequency		6		GHz
Input Power	-10	-7	10	dBm
Input Impedance		50		$\Omega$
IF Input				
Input Frequency		4		GHz
Input Power			-5	dBm
Input Impedance		50		$\Omega$
Gain @ IFin = -10 dBm				
Tx 1		23.3		dB
Tx 2		19.9		dB
Tx 3		18.44		dB
Tx 4		18.68		dB



## Receiver Four-port Frequency Converter

### ● SPECIFICATIONS

Parameters	Min	Typ	Max	Unit
Supply Voltage (Vdd)	5	5	9	V
Supply Current (Idd)		0.95		A
<b>RF Input</b>				
Input Frequency		28		GHz
Input Power			-32	dBm
Input Impedance		50		$\Omega$
<b>LO Input</b>				
Input Frequency		6		GHz
Input Power	-10	-7	10	dBm
Input Impedance		50		$\Omega$
<b>IF Output</b>				
Output Frequency		4		GHz
Output Power			0	dBm
Output Impedance		50		$\Omega$
<b>Gain @ RFin = -40 dBm</b>				
Rx 1		34.8		dB
Rx 2		32.32		dB
Rx 3		32.06		dB
Rx 4		32.32		dB

