

# MG35TC-28C Double Balanced Mixer

4.5 to 14.5 GHz

## Technical Characteristics

Product Features	
Multi-octave bandwidth	
Broad frequency - input and output	
Wide DC to IF frequency response	
Low conversion loss	
High port-to-port isolation	

Maximum Ratings	
Storage Temperature	-65 to +150°C
Operating Temperature Peak	-55 to +125°C
Peak Input Power For Any Single Port	+23dBm Peak
Peak Input Power For Any Port	+26dBm peak
Peak Input Current @ +25° C	100mA

Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
<b>Conversion Loss</b>						
RF Input	4.5 to 14.5		6.0	8.0	dB	LO = +10dBm
LO Input	4.9, 7.0, 12.8, 13.05					
IF Output	0.95 to 1.7					
<b>Conversion Flatness</b>						
<b>Isolation</b>						
LO-RF	4.5 to 14.5	20.0	25.0		dB	
LO-IF	4.5 to 14.5	18.0	25.0		dB	
RF-IF	.950 to 1.70	25.0	30.0		dB	
VSWR	LO-IF/RF		2.0:1/2.5:1			
1dB Comp.Point			5.0		dBm	
LO Drive	4.5 to 14.5	7.0		10.0	dBm	
Input TOIP			11.0		dBm	RF: 9.0 GHz @-6 dBm RF: 9.01 GHz @-6 dBm RF: 9.25 GHz @+10 dBm

NOTES:  
 1. Measured in a 50 ohm system with nominal LO drive and downconverter application only, unless otherwise specified. The I-port frequency range extends to DC for phase detection, pulse modulation, or attenuator applications. I-port VSWR degrades from a 50 Ω system at LO-IF frequencies.  
 2. Typical values are measured at +25°C and are not guaranteed.

### Package outline C

