



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# 26 TO 40 GHz DOUBLE-BALANCED MIXER

## MODEL: M2640W1

### FEATURES

- RF/LO coverage ..... 26 to 40 GHz
- IF operation ..... DC to 12 GHz
- Input IP<sup>3</sup> ..... +18 dBm
- LO power range ..... +10 to +15 dBm
- Packaging ..... Hermetically sealed



### ELECTRICAL SPECIFICATIONS

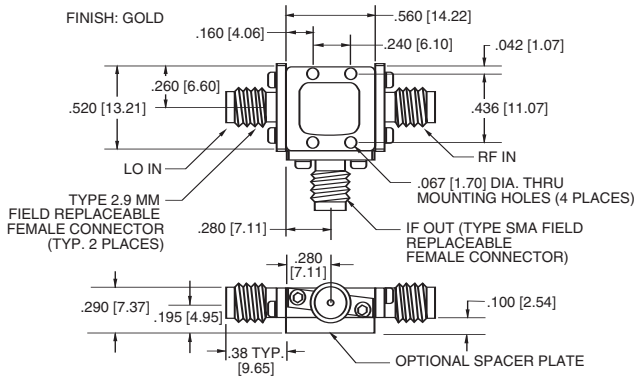
INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	26		40
RF VSWR (LO = +13 dBm, RF = -10 dBm)		Ratio		2.75:1	
LO frequency range		GHz	26		40
LO power range		dBm	+10	+13	+15
LO VSWR (LO = +13 dBm)		Ratio		2.75:1	
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Conversion loss (IF = 1 GHz)	LO = +13 dBm	dB		10	12
Single-sideband noise figure at 25°C		dB		10.5	
LO-to-RF isolation		dB	28	35	
LO-to-IF isolation		dB		30	
RF-to-IF isolation		dB		25	
Input power at 1 dB compression point	LO = +13 dBm	dBm		+10	
Input two-tone third-order intercept point	LO = +13 dBm	dBm		+18	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range at -3 dB bandwidth	LO = +13 dBm	GHz	DC		12
IF VSWR	LO = +13 dBm	Ratio		3:1	

NOTE: Test data supplied at 25°C; conversion loss and LO-to-RF isolation.

#### MAXIMUM RATINGS

Specification temperature ..... +25°C  
 Operating temperature ..... -54 to +85°C  
 Storage temperature ..... -65 to +125°C

### OUTLINE DRAWING



NOTE: All dimensions shown in brackets [ ] are in millimeters.

#### TYPICAL SINGLE-TONE (m) RF x (n) LO RELATIVE SPUR LEVEL (dBc) TO REF (RF = -10 dBm, LO = +13 dBm)

RF HARMONIC (m)	LO HARMONIC (n)			
	1	2	3	4
4			72	74
3		71	69	70
2	68	56	66	
1	REF	40		

