

## DESCRIPTION

The C28LNC Series is a low noise converter developed for full waveguide band up and down conversion applications in WR10 (26.5-40 GHz). The design leverages our fundamental mixer technology to satisfy the needs for optimized performance criteria. Our converters involve optimizing performance for size, output power, conversion loss, stability, group delay, noise figure, and bandwidth. Contact OML to discuss your specific requirements.



**C28LNC Series** 

WR28 Low Noise Converters

HIGHLIGHTS	APPLICATIONS
	<ul><li>Versatility to satisfy multiple applications</li><li>Noise figure measurements</li></ul>

## ELECTRICAL AND PERFORMANCE SPECIFICATIONS (+25°C)

After a one hour warm-up period, the C28LNC satisfies the following specifications.

Electrical Characteristics <sup>1</sup>	TYPICAL
RF Input Frequency Range (GHz)	26 to 40
LO Input Frequency Range (GHz)	13 to 20
IF Output Frequency Range (MHz)	10 to 300
RF Input Compression (P <sub>1dB</sub> ) (typ.)	TBD
Conversion Loss (typ.)	11 dB
LO Input Power	+7 to +10 dBm
VSWR (typ.) RF Input LO Input	1.5:1 1.6:1
IF Output <sup>2</sup>	2.0:1
Interface RF Input LO Input	WR-28 <sup>3</sup> SMA(f)
IF Output	SMA(f)
DC Input	7 Pin Circular Bayonet Plug
DC (+12 VDC) Power Requirements	1.5 A, typ.
Operating Temperature Range (°C)	20° - 30°

<sup>1)</sup> Specifications subject to change without notice

<sup>2)</sup> With IF amplifier

<sup>J</sup>M, Inc.

<sup>3)</sup> Test Port Flange Configuration is compatible with MIL-DTL-3922/54 and MIL-DTL-3922/67D

## SIMPLIFIED BLOCK DIAGRAM

