

DESCRIPTION

The C22LNC Series is a low noise converter developed for full waveguide band up and down conversion applications in WR22 (33-50 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.



C22LNC Series

HIGHLIGHTS	APPLICATIONS
Full waveguide band coverageLow conversion loss performance	Versatility to satisfy multiple applicationsNoise figure measurements

ELECTRICAL AND PERFORMANCE SPECIFICATIONS (+25°C)

After a one hour warm-up period, the C22LNC satisfies the following specifications.

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Electrical Characteristics ¹	TYPICAL
RF Input Frequency Range (GHz)	33 to 50
LO Input Frequency Range (GHz)	11 to 16.7
IF Output Frequency Range (MHz)	10 to 300
RF Input Compression (P _{1dB}) (typ.)	TBD
Conversion Loss (typ.)	12 dB
LO Input Power	+7 to +10 dBm
VSWR (typ.)	
RF Input	1.5:1
LO Input	1.6:1
IF Output ²	2.0:1
Interface	
RF Input	$WR-22^3$
LO Input	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°

¹⁾ Specifications subject to change without notice

²⁾ With IF amplifier

^JM, Inc.

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

SIMPLIFIED BLOCK DIAGRAM



C22LNC Datasheet: Rev A Release: 06-2011