

HIGH-VALUE TEST TRANSLATORS

FOR SATELLITE COMMUNICATIONS



	RF Input	RF Output	LO Frequency	
Model Number	(GHz)	(GHz)	(GHz)	
DNS-14-12-LC	14.0 – 14.5	11.7 – 12.2	2.3	
DNS-14-1.2-LC	14.0 – 14.5	0.95 - 1.45	13.05	
DNS-14.1-1.35-LC	13.75 – 14.5	0.95 - 1.70	12.8	
DNS-6-4-LC	5.845 - 6.425	3.62 - 4.2	2.225	
DNS-6-1.2-LC	5.925 - 6.425	0.95 - 1.45	4.975	
DNS-6-1.2-INV-LC	5.925 - 6.425	0.95 - 1.45	7.375	

FEATURES

- Minimum amplitude and delay distortion
- 30 dB level control

OPTIONS

- 1A. 30 dB additional level control.
 Attenuator located at input.
- 7. Summary alarm. Contact closure for DC power and/or local oscillator fault.

Note: Missing option numbers are not applicable for these systems.

This equipment is designed for applications where frequency translation is needed with a minimum of amplitude and delay distortions.

GENERAL SPECIFICATIONS

FUNCTIONAL

Amplitude response...... ±0.25 dB over any 40 MHz,

±1 dB over output frequency band

Frequency stability $\pm 3 \times 10^{-6}$ /day (0 to 50°C)

Intermodulation distortion With two inband signals at -5 dBm, third order intermodulation

products are less than 50 dBc

Input/output isolation 60 dB minimum

PRIMARY POWER REQUIREMENTS

250 VAC maximum

Frequency 47-63 Hz Power consumption...... 150 W typical

PHYSICAL

Weight 20 pounds nominal

Connectors (rear panel)

RF...... N female Summary alarm (Option 7) DE-9P

Test points (front panel)

DC voltage...... Jack LO phase voltage Jack

LO frequency/power monitor...... SMA female

ENVIRONMENTAL

Operating

Ambient temperature...... 0 to 50°C

Relative humidity Up to 95% at 30°C

Atmospheric pressure Up to 10,000 feet

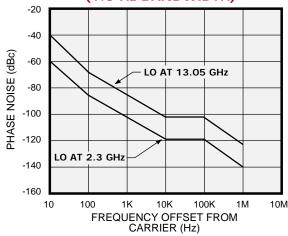
Nonoperating

Ambient temperature -50 to +70°C Atmospheric pressure Up to 40,000 feet

Shock and vibration...... Normal handling by

commercial carriers

TYPICAL PHASE NOISE CHARACTERISTICS (1.0 Hz BANDWIDTH)





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