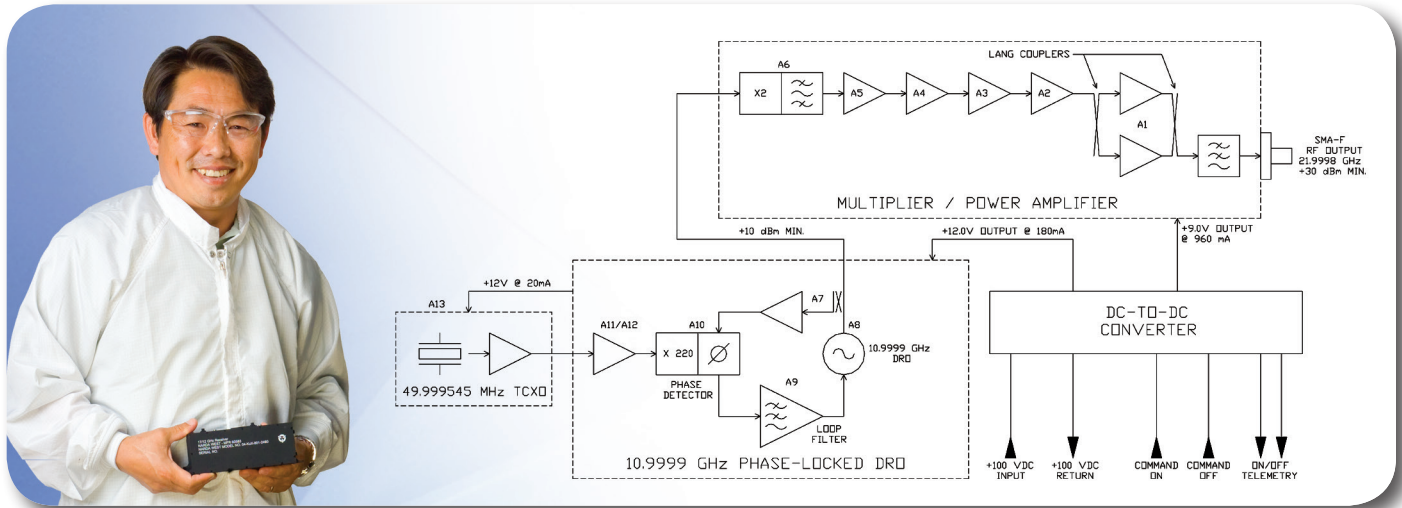


FEATURES

- Frequency band designs: C-, X-, Ku- and Ka-Bands
- High-frequency accuracy & stability
- Output power up to 1.6 W
- Integral TCXO reference
- Integral DC/DC converter

The L3 Narda Microwave-West Beacon Oscillator is a highly integrated solid-state, phase-locked source with high stability, low-noise integral reference oscillator and DC/DC converter. The elements that make up the Beacon are housed in a single unified enclosure.



SPECIFICATIONS: BEACONS		
PARAMETER	UNITS	SPECIFICATION
Frequency Bands	GHz	C, X, Ku, Ka
Frequency Stability - Over Life and Acceptance Temperature	ppm	$< \pm 5.0$
Output Power	dBm	26 to 32
Spurious and Harmonics	dBc	< -60
Output Return Loss	dB	> 18
DC Voltage - Primary Bus	V	36, 50, 70, 100
DC Power for 30 dBm Output Power	W	< 16
Mass	g	< 1150
TYPICAL PHASE NOISE SPECTRAL DENSITY - OFFSET FROM CARRIER*		
10 Hz	dBc/Hz	-55
100 Hz	dBc/Hz	-80
1 kHz	dBc/Hz	-95
10 kHz	dBc/Hz	-102
100 kHz	dBc/Hz	-106
1 MHz	dBc/Hz	-130
10 MHz	dBc/Hz	-145

*C-BAND NOISE IS 6 DB LOWER AND KA-BAND NOISE IS 6 DB HIGHER

BEACONS

Narda Microwave-West Beacons operate C-, X-, Ku- and Ka-Band frequency ranges. A Beacon Oscillator consists of a Phase-Locked Voltage Controlled Oscillator, associated multiplier and filter elements, a solid state amplifier chain that boosts the signal to the desired power level, a DC/DC converter and a high stability, low-noise TCXO.

The unit is constructed using a thin-film oscillator, amplifier, attenuator, coupler/detector, microstrip band-pass filter and control circuits. The thin-film modules are enclosed in a laser-sealed hermetic aluminum housing. The housing has either a single SMA or rectangular wave guide output connector and a 15-pin D-sub connector for spacecraft bus interface. The DC/DC converter primary interface is available for a variety of bus voltages and configurations.

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