



NKO Series Millimeter Band Dielectrically Stabilized Oscillators (DROs)

Features

- **18 GHz to 32 GHz**
any frequency
- **Limited pulling**
- **Built-in regulator**
excellent pushing characteristics
- **Low harmonic content**
- **-90 dBc spurious**
- **-54°C to +75°C operation**
- **Reverse voltage protection**

Options Available Based On Standard Designs

- **Improved pulling characteristics**
- **Lower current**

Special Models Available

- **Hermetic sealing**
- **Other package sizes**



Free-Running Oscillators

50 Years of
Excellence

MODEL SERIES	NKO-KF	CONDITIONS
FREQUENCY		
Operating	18,000-32,000 MHz	Note 1
Accuracy	$\pm 0.7\%$	Set at +25°C
Variation Over Temperature (max)	$\pm 0.05\%$	-54° to +75°C
Pulling (max)	$\pm 0.04\%$	1.7:1, all phases
Pushing (max)	0.01 MHz/Volt	11-19 VDC
Stability (max)		Note 2
POWER		
Output (min)	+9.0 dBm	At +25°C, 50 Ohm load
Variation Over Temperature (max)	± 2.5	-54°C to 75°C
Load VSWR (max)	3.0:1	
SPECTRAL PURITY		
Phase Noise (typ)	18-22 GHz = 80 dBc 22-24 GHz = 75 dBc 24-27 GHz = 70 dBc 27-32 GHz = 65 dBc	10 kHz from carrier, 1 Hz Bandwidth
Spurious Output (max)	-90 dBc	All conditions
Harmonics (max)	-25 dBc	All conditions
INPUT POWER		
Voltage	+15 $\pm$ 4 VDC	All conditions
Current (max)	125 ma	At 15 VDC

Notes:

1. Center frequency is customer specified to the MHz.
2. Overall stability includes the effects of the full temperature range, pushing, aging, and pulling (1.5:1 maximum load VSWR).

**narda**an  communications company

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