



GENERAL DESCRIPTION

The MOX Series is EM Research's master oscillator multiplexer. Thanks to single or dual multiplexer options in addition to an interface between VSAT modems and other frequency converters, the MOX Series is a standout satellite communication external reference solution. The MOX Series is designed to handle outdoor environments and maintain low phase noise.

MOX SERIES FEATURES

- Low phase noise OCXO
- Reference from 1 to 100 MHz
- L-Band from 900-2200 MHz
- DC Bias Tee/Multiplexer
- Interface between VSAT modems and frequency converters
- Gasket sealed, robust housing for weather resistance

MOX SERIES OPTIONS

- Various OCXO frequencies available:
10, 50, 100, 120 MHz
- OCXO with low G-sensitivity available
- Single or dual multiplexer options
- Single or dual bias tee options

GENERAL SPECIFICATIONS

Reference Stability	±5 to ±10 ppb over temp.
Ref. Aging (After 30 days)	≤ ±1 ppm total (Year 10)
Stand. Op. Temperature	-15°C to +55°C
Insertion Loss (L-band)	0.5 dB Max
Band Flatness (L-band)	±0.3 dB Max
Ripple (L-band)	±0.3 dB Max
Supply Options	+14 to +20 VDC
Current	350 mA Typical
DC-Bias Tee	up to +40 V @ 4 A



TYPICAL APPLICATIONS

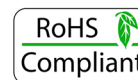
- Satellite communication
- L-band bias tee
- Reference and L-band diplexor

PHASE NOISE (dBc / Hz)

Offset	10 MHz	50 MHz
10 Hz	-120	-100
100 Hz	-145	-130
1 KHz	-157	-160
10 KHz	-160	-165
100 KHz	-160	-170

Final product specifications will vary upon customer's parameters

See more at
WWW.EMRESEARCH.COM



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