PROGRAMMABLE SYNTHESIZER

MDS Series

The MDS Series are fixed frequency synthesizers or user programmable frequency synthesizers. The units have internal or external reference. Output frequency is available from 100 MHz to 6 GHz fundamental, which can be expanded up to 24 GHz with external multiplier. The unit is designed for rugged, low-cost applications. Fine frequency step size is also available.

FEATURES

- *PROGRAMMABLE*
- *INTERNAL VOLTAGE REGULATOR*
- *PHASE LOCK INDICATOR ALARM*
- *LOW PHASE NOISE*
- *LOW COST*
- *FINE RESOLUTION / STEP SIZE*
- *LOW POWER CONSUMPTION*
- *+10 dBm OUTPUT POWER*
- *AVAILABLE FROM 100 MHz - 24 GHz*
- *COMPACT DESIGN 2.25"x2.25"x.67"*

SPECIFICATIONS

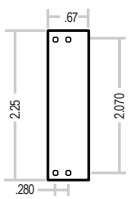
Model Number	MDS-XXX-N-XXXX (see chart below)
Frequency	100 MHz -14 GHz, up to 26 GHz with X2 or 4
Power Output	+10 dBm
Power Requirements	+ 8 VDC min, +15 VDC, 150-250mA,TYP (depends on model)
Reference Input Frequency / Power	10 - 100 MHz / 0 dBm
Phase Noise	-90 dBc/Hz @ 10 KHz (for 5.8 GHz)
Spurious / Harmonics	-40 dBc / - 15 dBc
Operating Temperature	0 to 50 °C Standard; -40 to + 85 °C Optional
Size / Connectors	2.25" x 2.25" x .67" / SMA Female

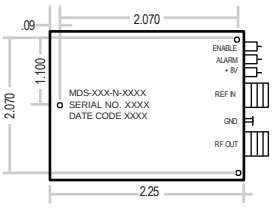
MODELS

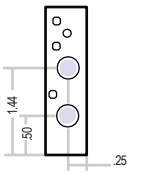
Model Number	Reference Type	Frequency	Programming Features
MDS-300-N-XXXX	Internal Reference	Single XXXX	None
MDS-301-N-XXYY	Internal Reference	Range XXYY	USB Programmable
MDS-400-N-XXXX	External Reference	Single XXXX	None
MDS-401-N-XXYY	External Reference	Range XXYY	USB Programmable

*N: Blank (fundamental)
*N: 2 or 4 with multiplier

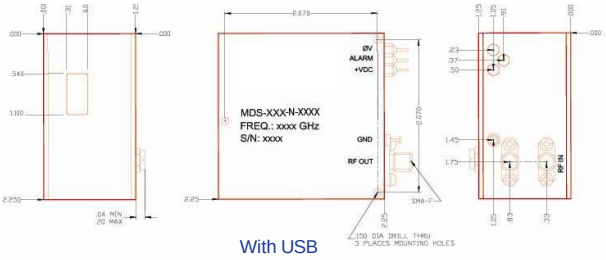
OUTLINE DRAWING







NOTE: Drawing not to scale



With USB

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