

MLSP PERFORMANCE SPECIFICATIONS (Continued)

Model No.	MLSP-0625	MLSP-2080	MLSP-6018	MLSP-8020
Reference Oscillator Options				
Option A				
External Reference (Note 3)	1 - 200 MHz	1 - 200 MHz	1 - 200 MHz	1 - 200 MHz
External Ref. Input Power	0 +/- 3 dBm	0 +/- 3 dBm	0 +/- 3 dBm	0 +/- 3 dBm
Frequency Stability	Cust Supplied	Cust Supplied	Cust Supplied	Cust Supplied
Option B				
External Reference with Internal Crystal (Note 4)	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz
External Ref. Input Power	0 +/- 3 dBm	0 +/- 3 dBm	0 +/- 3 dBm	0 +/- 3 dBm
Frequency Stability	Cust Supplied	Cust Supplied	Cust Supplied	Cust Supplied
Option C				
Internal Reference	100 MHz	100 MHz	100 MHz	100 MHz
Frequency Stability	+/- 1 PPM	+/- 1 PPM	+/- 1 PPM	+/- 1 PPM
Supply Voltage & Current (Note 5)				
+15 Vdc (± 0.5 Vdc)	525 mA	825 mA	1375 mA	1525 mA
+5 Vdc (± 0.25 Vdc)	300 mA	300 mA	300 mA	300 mA
Power dissipation	9.4 watts	13.9 watts	22.1 watts	23.4 watts
Supply Voltage Ripple (Pk-Pk from 60 Hz to 3 MHz)	<50 mV	<50 mV	<50 mV	<50 mV
Control Format	5-Line Serial USB	5-Line Serial USB	5-Line Serial USB	5-Line Serial USB
Phase Lock Alarm (P13) (TTL)	1=Locked	1=Locked	1=Locked	1=Locked
Weight	15 oz / 426 g	15 oz / 426 g	15 oz / 426 g	15 oz / 426 g

MLSP Options:

Option A: External Reference / No Internal Reference

Option B: Internal Reference / External Reference

Option C: Internal Reference / No External Reference, Drawing 181-003 & 181-004

Option D: RF Connectors Front, Drawing 181-001

Option E: RF Connectors Side, Drawing 181-002

Option F: Fixed power level >0 dBm, level flatness +/- 1.0 dB, +/- 0.25 dB typ.

Option G: RF Power Leveling (-20dB Delta from attained power level (i.e. +10 to -10 dBm), in 0.1dB increments).

Option H: Higher RF Power level available.

Part Number Example: MLSP-8020CE 8 GHz to 20 GHz with Internal Reference and RF connectors on side.

Notes:

- 1) Special operating temperature range available.
- 2) Special frequency ranges available.
- 3) 50-100 MHz OCXO recommended for best phase noise performance. External reference directly effects phase noise performance.
- 4) Output phase noise performance is not dependent on external reference phase noise.
- 5) All values stated for units with external reference. For internal reference add 125mA on the +15 Vdc line.
- 6) Higher power levels available (Option H).
- 7) Improved level flatness fixed output level (Option F).
- 8) RF Power level control, adjustable over a 20 dB range in 0.1 dB increments (Option G).