

M3500-0408 (400-800 MHz)

1F. M3500-0408VCO TECHNICAL SPECIFICATIONS

ABSOLUTE MAXIMUM / MINIMUM RATINGS	
PARAMETER	RATING
Maximum Supply Voltage	+15.0V
Tuning Voltage Min/Max	0/20V

GUARANTEED PERFORMANCE (0-70° C)	
PARAMETER	DATA
Power Dissipation	360 mW max (30 mA @ +12V)
Frequency Tuning Range	400 to 800 MHz min
Power Output (50W)	10 dBm min

TYPICAL PERFORMANCE (0-70° C)	
PARAMETER	DATA
Nominal Supply Voltage	+12V
Power Output (50W)	+10 dBm
Typical Current	26mA
Tuning Voltage	0.9 - 15.6 V
FM(Phase)Noise:	1 kHz Offset -73 dBc/Hz
	10 kHz Offset <-95 dBc/Hz
	100 kHz Offset <-114 dBc/Hz
	1 MHz Offset <-129 dBc/Hz
Frequency Pushing	1.0 MHz/V for 12 ± 1V
Frequency Pulling (12dB Return Loss)	10 MHz peak-peak
Harmonic Spurious (Average)	-12 dBc
Tuning Port DC Resistance	20KW
Tuning Port Bandwidth:	@ Tuning Voltage = 2.8V 1.3 MHz
	@ Tuning Voltage = 9.4V 3.7 MHz
	@ Tuning Voltage = 17.2V 6.4 MHz

2F. PERFORMANCE CURVES FOR M3500-0408

