

M3500-0510 (500-1000 MHz)

1G. M3500-0510 VCO 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	480 mW max (40 mA @ +12V)
Frequency Tuning Range	500 to 1000 MHz min
Power Output (50W)	9.5 dBm min

TYPICAL PERFORMANCE (0-70° C)	
PARAMETER	DATA
Nominal Supply Voltage	+12V
Power Output (50W)	+12.5 dBm
Typical Current	33mA
Tuning Voltage	0.8-13.5 V
FM(Phase)Noise:	1 kHz Offset
	10 kHz Offset
	100 kHz Offset
	1 MHz Offset
Frequency Pushing	0.6 MHz/V for 12 ± 1V
Frequency Pulling (12dB Return Loss)	10 MHz peak-peak
Harmonic Spurious (Average)	-11 dBc
Tuning Port Bandwidth:	@ Tuning Voltage = 1.2V
	@ Tuning Voltage = 4.8V
	@ Tuning Voltage = 13.6V

2G. PERFORMANCE CURVES FOR M3500-0510

