

M3500-0916 (900-1600 MHz)

1J. M3500-0916 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	300 mW max (25 mA @ +12V)
Frequency Tuning Range	900 to 1600 MHz min
Power Output (50)	5 dBm min

TYPICAL PERFORMANCE (0-70° C)		
PARAMETER		DATA
Nominal Supply Voltage		+12V
Power Output (50)		+7 dBm
Typical Current		22mA
Tuning Voltage		1.0-10.5 V
FM(Phase)Noise:	1 kHz Offset	-66 dBc/Hz
	10 kHz Offset	<-90 dBc/Hz
	100 kHz Offset	<-110 dBc/Hz
	1 MHz Offset	<-124 dBc/Hz
Frequency Pushing		1.5 MHz/V for 12 ± 1V
Frequency Pulling (12dB Return Loss)		16 MHz peak-peak
Harmonic Spurious (Average)		-12 dBc
Tuning Port Bandwidth:	@ Tuning Voltage = 2.4V	4.6 MHz
	@ Tuning Voltage = 5.4V	7.2 MHz
	@ Tuning Voltage = 11.0V	8.2 MHz

2J. PERFORMANCE CURVES FOR M3500-0916

