

M3500-0305 (300-500 MHz)

1D. M3500-0305 VCO TECHNICAL SPECIFICATIONS

ABSOLUTE MAXIMUM / MINIMUM RATINGS	
PARAMETER	RATING
Maximum Supply Voltage	+14.5V
Tuning Voltage Min/Max	0/20V

GUARANTEED PERFORMANCE (0-70° C)	
PARAMETER	DATA
Power Dissipation	360 mW max (30 mA @ +12V)
Frequency Tuning Range	300 to 500 MHz min
Power Output (50W)	9 dBm min

TYPICAL PERFORMANCE (0-70° C)	
PARAMETER	DATA
Nominal Supply Voltage	+12V
Power Output (50W)	+12 dBm
Typical Current	26mA
Tuning Voltage	1.6-14.0 V
FM(Phase)Noise:	1 kHz Offset
	10 kHz Offset
	100 kHz Offset
	1 MHz Offset
Frequency Pushing	1.5 MHz/V for 12 ± 1V
Frequency Pulling (12dB Return Loss)	8 MHz peak-peak
Harmonic Spurious (Average)	-4 dBc
Tuning Port Bandwidth:	@ Tuning Voltage = 1.6V
	@ Tuning Voltage = 6.2V
	@ Tuning Voltage = 13.4V

2D. PERFORMANCE CURVES FOR M3500-0305

