

M3500-0306 (300-600 MHz)

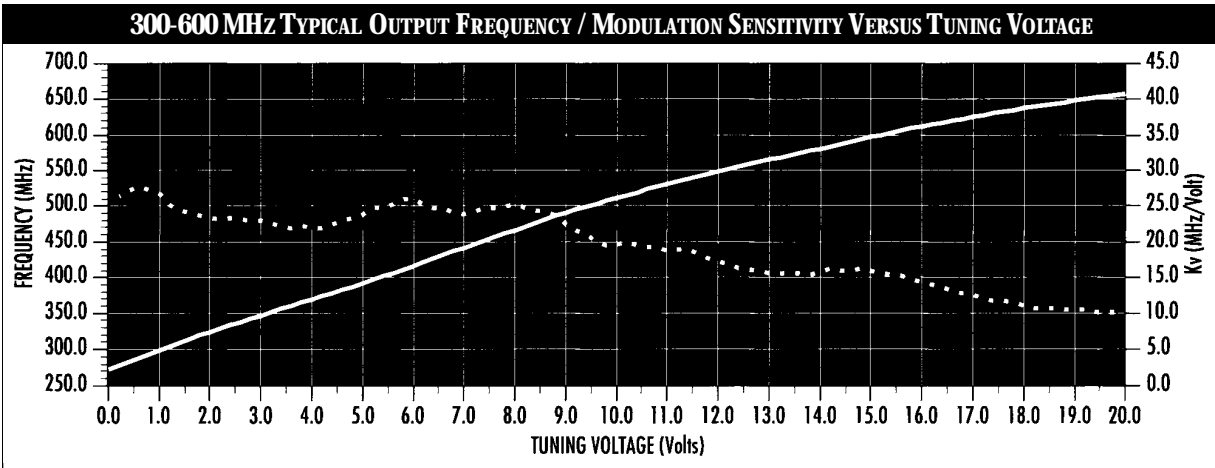
1E. M3500-0306 VCO TECHNICAL SPECIFICATIONS

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	360 mW max (30 mA @ +12V)
Frequency Tuning Range	300 to 600 MHz min
Power Output (50)	9.5 dBm min

TYPICAL PERFORMANCE (0-70° C)		
PARAMETER		DATA
Nominal Supply Voltage		+12V
Power Output (50)		+9.5 dBm
Typical Current		26mA
Tuning Voltage		1.0-15.2 V
FM(Phase)Noise:	1 kHz Offset	-72 dBc/Hz
	10 kHz Offset	<-96 dBc/Hz
	100 kHz Offset	<-116 dBc/Hz
	1 MHz Offset	<-130 dBc/Hz
Frequency Pushing		0.7 MHz/V for 12 ± 1V
Frequency Pulling (12dB Return Loss)		8 MHz peak-peak
Harmonic Spurious (Average)		-11 dBc
Tuning Port DC Resistance		20K
Tuning Port Bandwidth:	@ Tuning Voltage = 2.4V	600 kHz
	@ Tuning Voltage = 7.2V	900 kHz
	@ Tuning Voltage = 14.8V	3.2 MHz

2E. PERFORMANCE CURVES FOR M3500-0306



FREQUENCY ————— Kv

