

M3500-0612 (600-1200 MHz)

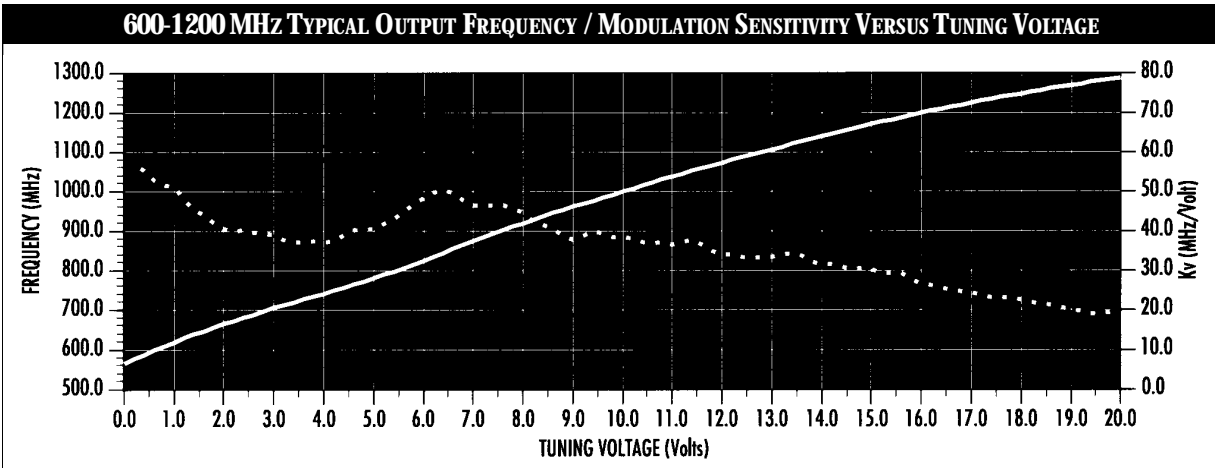
1H. M3500-0612 VCO TECHNICAL SPECIFICATIONS

| ABSOLUTE MAXIMUM / MINIMUM RATINGS | |
|------------------------------------|--------|
| PARAMETER | RATING |
| Maximum Supply Voltage | +12.0V |
| Tuning Voltage Min/Max | 0/20V |

| GUARANTEED PERFORMANCE (0-70° C) | |
|----------------------------------|------------------------------|
| PARAMETER | DATA |
| Power Dissipation | 300 mW max (25 mA @ +12V) |
| Frequency Tuning Range | 600 to 1200 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 | 0.6-15.4 V | |
| FM(Phase)Noise: | 1 kHz Offset | -72 dBc/Hz |
| | 10 kHz Offset | <-94 dBc/Hz |
| | 100 kHz Offset | <-114 dBc/Hz |
| | 1 MHz Offset | <-127 dBc/Hz |
| Frequency Pushing | 1.0 MHz/V for 12 ± 1V | |
| Frequency Pulling (12dB Return Loss) | 13 MHz peak-peak | |
| Harmonic Spurious (Average) | -10 dBc | |
| Tuning Port Bandwidth: | @ Tuning Voltage = 2.6V | 2.0 MHz |
| | @ Tuning Voltage = 8.0V | 5.6 MHz |
| | @ Tuning Voltage = 14.8V | 10.8 MHz |

2H. PERFORMANCE CURVES FOR M3500-0612



FREQUENCY ————— Kv ········

