

# 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<br>(25 mA @ +12V) |
| Frequency Tuning Range           | 600 to 1200 MHz min          |
| Power Output (50V)               | 5 dBm min                    |

| TYPICAL PERFORMANCE (0-70° C)        |                          |
|--------------------------------------|--------------------------|
| PARAMETER                            | DATA                     |
| Nominal Supply Voltage               | +12V                     |
| Power Output (50V)                   | +7 dBm                   |
| Typical Current                      | 22mA                     |
| Tuning Voltage                       | 0.6-15.4 V               |
| FM(Phase)Noise:                      | 1 kHz Offset             |
|                                      | 10 kHz Offset            |
|                                      | 100 kHz Offset           |
|                                      | 1 MHz Offset             |
| 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  |
|                                      | @ Tuning Voltage = 8.0V  |
|                                      | @ Tuning Voltage = 14.8V |

## 2H. PERFORMANCE CURVES FOR M3500-0612

