

1.0	MONITOR PART NUMBER	<u>1279-01</u>
2.0	CLASSIFICATION	<u>OSCILLATOR, CRYSTAL, OVENIZED, VOLTAGE CONTROLLED</u>
3.0	ELECTRICAL CHARACTERISTICS (NOTE 1)	
3.1	NOMINAL FREQUENCY	<u>50.000 MHz</u>
3.1.1	CALIBRATION TOLERANCE	
3.1.2	STABILITY	
3.1.2.1	FREQUENCY vs AMBIENT	<u>$\pm 0.5 \times 10^{-6}$ / -40°C TO $+75^{\circ}\text{C}$ WITH $+2.5$ VDC ON PIN 1</u>
3.1.2.2	FREQUENCY vs SUPPLY VOLTAGE	<u>2.0×10^{-7} / VOLT</u>
3.1.2.3	FREQUENCY vs LOAD	<u>5.0×10^{-6}</u>
3.1.2.4	FREQUENCY vs TIME	
3.1.2.4.1	AGING PER DAY	<u>5.0×10^{-9}</u>
3.1.2.4.2	AGING PER YEAR	<u>5×10^{-7}</u>
3.1.2.4.3	WARM UP TIME	<u>3 MIN TO WITH 1.0×10^{-7}</u>
3.1.2.5	PHASE NOISE	
	10Hz	<u>-85 dBc / Hz</u>
	100Hz	<u>-110 dBc / Hz</u>
	1K	<u>-128 dBc / Hz</u>
	10K	<u>-137 dBc / Hz</u>
	100K	<u>-150 dBc / Hz</u>
3.2	WAVE FORM	<u>SINE WAVE</u>
3.2.1	AMPLITUDE	<u>+3 dBm TO +6 dBm</u>
3.2.2	SPURIOUS	<u>-80 dBc</u>
3.2.3	HARMONICS	<u>-15 dBc</u>
3.2.4	LOAD	<u>50 OHM $\pm 5\%$</u>
3.3	CONTROL VOLTAGE CHARACTERISTICS	
3.3.1	FREQUENCY CHANGE	<u>$\pm 5.0 \times 10^{-6}$ MIN / $\pm 1.5 \times 10^{-5}$ MAX</u>
3.3.2	CONTROL VOLTAGE RANGE	<u>.5 TO 4.5 V / 2.5 V NOM (MUST SURVIVE 0 TO +12 VDC INPUT)</u>
3.3.3	TRANSFER COEFFICIENT and SENSE	<u>POSITIVE</u>
3.3.4	LINEARITY	<u>35%</u>
3.4	POWER INPUT	
3.4.1	VOLTAGE	<u>+12 VDC $\pm 5\%$</u>
3.4.2	CURRENT	
3.4.2.1	CONTINUOUS	<u>0.7 WATTS</u>
3.4.2.2	WARM UP	<u>2.750 WATTS</u>
4.0	ENVIRONMENTAL	
4.1	AMBIENT TEMPERATURE RANGE	
4.1.1	OPERATING	<u>-30°C TO $+70^{\circ}\text{C}$</u>
4.1.2	STORAGE	
4.2	VIBRATION	
4.3	SHOCK	
4.4	HUMIDITY	
4.5	OTHER	

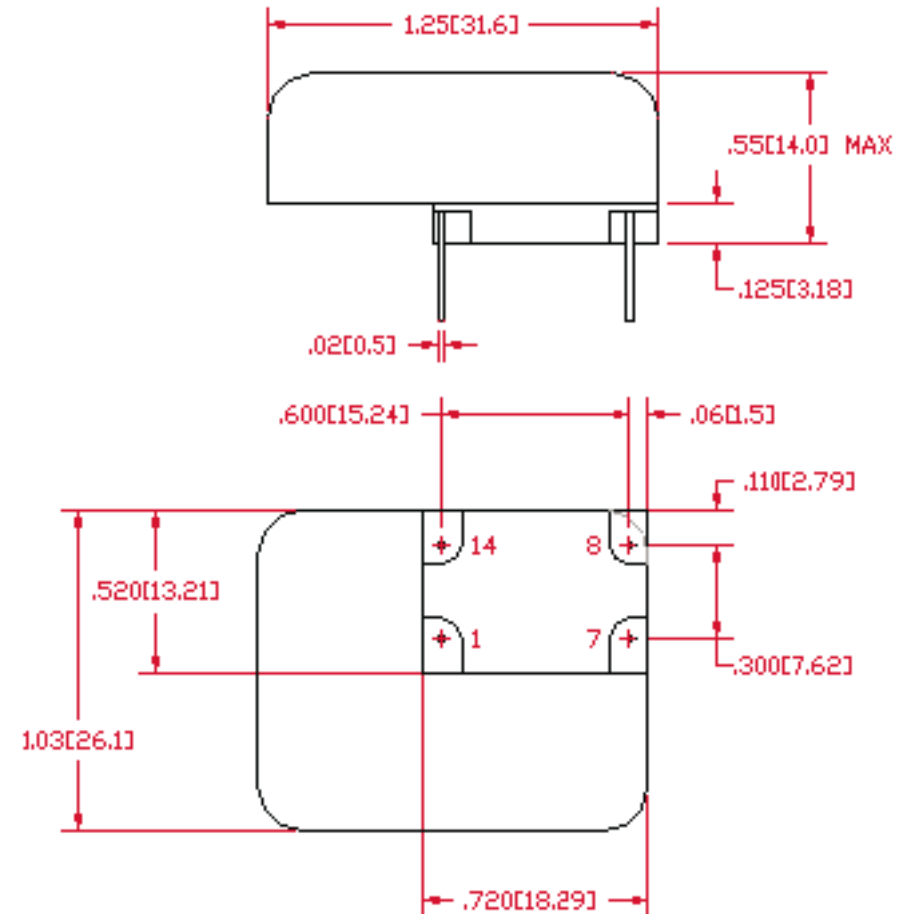
NOTE 1 - ALL PERFORMANCE FIGURES ARE MEASURED UNDER THE FOLLOWING TEST CONDITION

- A. AMBIENT TEMP. $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ EXCEPT PARA 3.1.3.1
 B. INPUT VOLTAGES; NOMINAL $\pm 1\%$ EXCEPT PARA 3.1.3.2.

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NOTES:

1. APPLICABLE STANDARDS/SPECIFICATION
ANSI Y14.5M-1982, DIMENSIONS AND TOLERANCES
2. DIMENSIONS IN BRACKETS ARE METRIC
3. PIN NUMBERS ARE FOR REFERENCE ONLY



5.0 MECHANICAL

- 5.1 MATERIAL/FINISH CPS / BRIGHT NICKEL PER
- 5.2 PIN CONNECTION QQ-N-290 TYPE II
 1. ELECT TUNING INPUT
 7. CASE GROUND
 8. OUTPUT
 14. +12 VDC



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