

1.0 MONITOR PART NUMBER 6717-XX

6717-XX

2.0 CLASSIFICATION OSCILLATOR, CRYSTAL, TEMPERATURE COMPENSATED, VOLTAGE CONTROLLED

3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)

3.1 NOMINAL FREQUENCY SEE TABLE

3.1.1 CALIBRATION TOLERANCE ±33 PPM WITH CONTROL VOLTAGE = 2.50 VDC

3.1.2 STABILITY

3.1.2.1 FREQUENCY vs AMBIENT SEE 3.3.1

3.1.2.2 FREQUENCY vs VOLTAGE

3.1.2.3 FREQUENCY vs LOAD

3.1.2.4 FREQUENCY vs TIME

3.1.2.4.1 SHORT TERM 100 μSEC

3.1.2.4.2 LONG TERM

3.1.2.4.3 TURN ON TIME 10mSEC

3.1.2.4.4 SSB PHASE NOISE

10 Hz	-85dBc
100 Hz	-95dBc
1kHz	-120dBc
10 kHz	-130dBc
100 kHz	-145dBc
1 MHz	-158dBc

3.2 WAVE FORM TTL/HCMOS

3.2.1 SYMMETRY/THD 50% ±10%

3.2.2 AMPLITUDE

3.2.3 RISE/FALL TIME 5nSEC MAX

3.2.4 LOAD 15pF MAX

3.3 VCXO TRANSFER CHARACTERISTICS

3.3.1 TOTAL FREQUENCY CHANGE ±32 PPM MIN / ±128 PPM MAX OVER ALL CONDITIONS

3.3.2 CONTROL VOLTAGE RANGE 0.5VDC TO 4.5 VDC - 6.0 VDC MAX

3.3.3 TRANSFER COEFFICIENT and SENSE POSITIVE

3.3.4 MINIMUM TUNING SENSITIVITY TO MAX TUNING SENSITIVITY 1:1.5

3.3.5 MODULATION FREQUENCY 1.0kHz

3.3.6 INPUT IMPEDANCE

3.4 POWER INPUT

3.4.1 OSCILLATOR VOLTAGE/CURRENT +5.00 VDC / 10mA MAX TO 15.00 MHz
/ 20mA MAX TO 30.00 MHz
/ 40mA MAX TO 75.00 MHz

3.4.2 POWER SUPPLY RIPPLE ±50mV

4.0 ENVIRONMENTAL

4.1 AMBIENT TEMPERATURE RANGE

4.1.1 OPERATING -40°C TO +85°C

4.1.2 STORAGE -55°C TO +125°C

4.2 VIBRATION MIL-STD-202, METH 204, 35G's

4.3 SHOCK MIL-STD-202, METH 213, COND A 50G's

4.4 HERMETIC SEAL MIL-STD-883, 1014 B

4.5 OTHER

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

A. AMBIENT TEMP. +25°C±5°C EXCEPT PARA 3.1.3.1.

B. INPUT VOLTAGES: NOMINAL ±1% EXCEPT PARA 3.1.3.2



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Frequency Table

DASH NO.	FREQUENCY (MHz)	DASH NO.	FREQUENCY (MHz)	DASH NO.	FREQUENCY (MHz)
-01	10.000000	-21	24.704000	-41	37.844000
-02	12.362000	-22	64.512000	-42	34.560000
-03	14.318180	-23	20.456000	-43	18.588000
-04	16.128000	-24	24.545400	-44	18.528000
-05	20.000000	-25	27.000000	-45	80.000000
-06	24.000000	-26	29.500000	-46	19.444000
-07	33.333333	-27	51.843200	-47	
-08	40.000000	-28	16.364000	-48	
-09	48.000000	-29	25.820000	-49	
-10	50.000000	-30	8.192000	-50	
-11	51.840000	-31	19.440000	-51	
-12	57.600000	-32	32.768000	-52	
-13	63.488000	-33	38.880000	-53	
-14	64.000000	-34	24.576000	-54	
-15	85.538000	-35	30.000000	-55	
-16	88.666666	-36	77.780000	-56	
-17	68.248800	-37	44.736000	-57	
-18	75.000000	-38	9.638086	-58	
-19	18.432000	-39	18.728000	-59	
-20	30.000000	-40	34.368000	-60	