1.0 MONITOR PART NUMBER 6720-XX

2.0 CLASSIFICATION OSCILLATOR, CRYSTAL, VOLTAGE CONTROL

3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)

3.1 NOMINAL FREQUENCY CHART 1

3.1.1 CALIBRATION TOLERANCE ±25 PPM AT +25°C WITH VC=+2.50VDC ±0.05 VDC

3.1.2 ADJUSTMENT RANGE

3.1.2.1 ADJUSTMENT RESOLUTION

3.1.3 STABILITY

3.1.3.1 FREQUENCY vs AMBIENT ±50PPM / -40°C TO +70°C

3.1.3.2 FREQUENCY vs VOLTAGE BETTER THAN 1 PPM FOR A 5% CHANGE

3.1.3.3 FREQUENCY vs LOAD 2 x 10E-7 MAX FROM NO LOAD TO 15pF

3.1.3.4 FREQUENCY vs TIME

3.1.3.4.1 SHORT TERM 1 x 10E-9 / 100 mSEC MAX

3.1.3.4.2 LONG TERM 30 PPM MAX OVER 10 YEARS

3.1.3.4.3 PHASE JITTER LESS THAN 1.0 nSEC

3.1.3.4.4 WARM UP TIME 10 SEC MAX

3.2 WAVE FORM HCMOS

3.2.1 SYMMETRY/THD 45/55% AT +2.50 VDC

3.2.2 AMPLITUDE LOGIC "0" = +0.5 V MAX / LOGIC "1" = 4.5 V MIN

3.2.3 RISE/FALL TIME 4 nSEC TYP / 6 nSEC MAX

3.2.4 LOAD 15pF

3.3 VCXO TRANSFER CHARACTERISTICS

3.3.1 TOTAL FREQUENCY CHANGE ±100 PPM MIN

3.3.2 CONTROL VOLTAGE RANGE +0.50 VDC TO +4.50 VDC

3.3.3 TRANSFER COEFFICIENT and SENSE POSITIVE

3.3.4 LINEARITY ±20%

3.3.5 MODULATION RATE/RESPONSE 10kHz MAX

3.4 POWER INPUT

3.4.1 OSCILLATOR VOLTAGE/CURRENT +5.00 VDC ±5% / 35mA

4.0 ENVIRONMENTAL

4.1 AMBIENT TEMPERATURE RANGE

4.1.1 OPERATING -40°C TO +70°C

4.1.2 STORAGE -55°C TO +125°C

4.2 VIBRATION 10-55 Hz 0.060 DA 55Hz - 2000Hz 20G's

4.3 SHOCK 1000G's 0.35mSEC 1/2 SINE 3 SHOCKS EACH PLANE

4.4 HUMIDITY 85% RH AT 85°C 1000 HOURS

4.5 OTHER

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

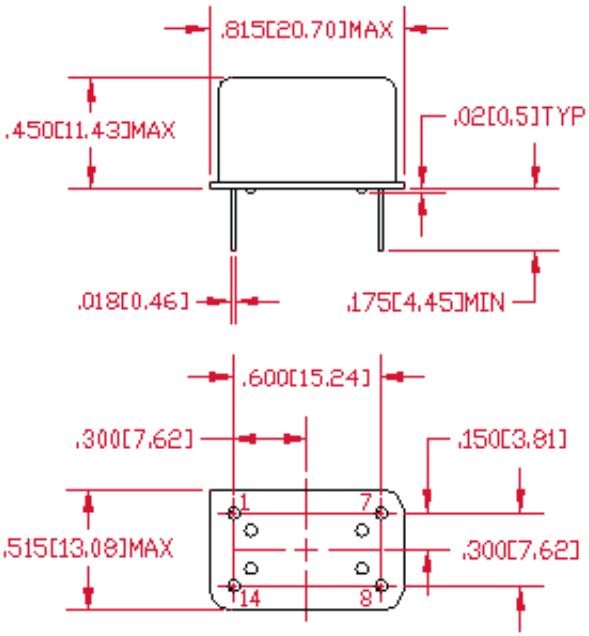
A. AMBIENT TEMP. +25°C±5°C EXCEPT PARA 3.1.3.1

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

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

6720-XX



5.0 MECHANICAL

5.1 MATERIAL/FINISH NICKEL PLATED STEEL / HOT TIN DIPPED PINS

5.2 PIN CONNECTION

1. VC
7. GROUND
8. OUTPUT
14. +5.00 VDC

MONITOR PRODUCTS COMPANY INC
A BOWTHORPE company
502 Via del Monte, Oceanside, CA 92054
Tel: 760 433-4510 Fax: 434-0255

Frequency Table

DASH NO.	FREQUENCY (MHz)	DASH NO.	FREQUENCY (MHz)	DASH NO.	FREQUENCY (MHz)
-01	10.000000	-21	24.704000	-41	37.844000
-02	12.352000	-22	64.512000	-42	34.560000
-03	14.318180	-23	20.456000	-43	18.688000
-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	25.920000	-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	65.536000	-35	30.000000	-55	
-16	66.666666	-36	77.760000	-56	
-17	68.249600	-37	44.736000	-57	
-18	75.000000	-38	9.538086	-58	
-19	18.432000	-39	18.726000	-59	
-20	30.000000	-40	34.368000	-60	