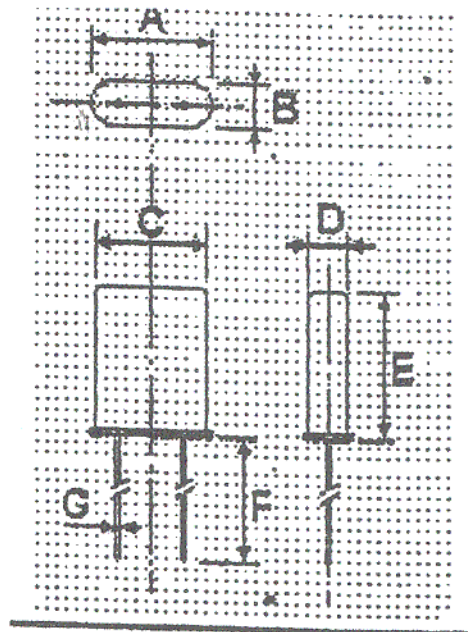


Specification of Quartz Crystal

PARAMETER	SPEDEFICATION
Nominal Freq.	21.250MHz
Holder	UM-1 (Size See Picture)
Freq. Tolerance	+/- 5ppm at 25 +/- 2 degree □
Temperature Stability	Fs +/- 2.5ppm, referenced to 25□
Operating Range	-30□ to +60□
Equivalent Res.Rs	25 ohms MAX
Mode of Oscillation	fund
Shunt Capacitance Co	5 PF MAX
Load Capacitance CL	12 PF
Storage Range	-30□ to +85□
Drive Level DL	10 uW +/-0.1uW
Aging	+/- 3ppm per year
Insulation	500 Mohm MAX (at DC100V +/-15V)
Leakage Test	No continuous air bubbles from can in the warm 80C in 5 minutes
Shock Test	Freq. shift +/-5PPM & Res.+/- 15% after test (dropping from 75cm height 3 times on wood)
Measurement	KH1200 PI-Net. Crystal Measurement System
Marking	TEK Nominal freq.

Dimension: UNIT □ mm

Code	Size
A	7.75+/-0.10
B	3.05+/-0.10
C	6.90+/-0.05
D	2.20+/-0.05
E	7.80+/-0.10
F	13.32+/-0.6
G	0.35+/-0.05



RADIOSHACK CORPORATION
FCC ID : AAO19-1208
JOB # : 578AH0

EXHIBIT #: 14A

Specification of Quartz Crystal

PARAMETER	SPEDIFICATION
Nominal Freq.	4.000MHz
Holder	3 X 9
Freq. Tolerance	+/- 30ppm at +/- 2 degree □
Temperature Stability	+/- 30ppm,referenced to 25□
Operating Range	-30□ to +60□
Equivalent Res.Rs	150 ohms MAX
Mode of Oscillation	fund
Shunt Capacitance Co	6 PF MAX
Load Capacitance CL	16 PF
Storage Range	-40□ to +85□
Drive Level DL	200 uW
Aging	+/- 5ppm per year
Insulation	500 Mohm MAX (at DC100V +/-15V)
Leakage Test	No continuous air bubbles from can in the warm 80C in 5 minutes
Shock Test	Freq. shift +/-10PPM & Res.+/- 15% after test (dropping from 75cm height 3 times on wood)
Measurement	KH1200 PI-Net. Crystal Measurement System



RADIOSHACK CORPORATION

FCC ID : AAO19-1208

JOB # : 578AH0

EXHIBIT # : 146