

CRYSTAL UNIT

SHIN SUNG ELEC.CO.,LTD
207-14 JEONPO-DONG PUSANJIN-KU PUSAN
TEL:051-807-8881 FAX:051-807-7676

TECHNICAL SPECIFICATION FOR QUARTZ CRYSTAL UNIT

I. Electrical Characteristics

1. Frequency Stability & Temp. Range

Vibration Mode	Frequency	Tolerance (at 25°C ± 2°C)	Frequency Stability over Temp. Range (refer to 25°C)	Table Type
Fund	12.800 MHz	± 10ppm	within ± 3ppm over 0°C ~ +50°C	
			within -4ppm ~ -7ppm over 0°C ~ -20°C	

2. Hold Type UM - 1
3. Load Capacitance 20 pF
4. Shunt Capacitance 5.0 pF Max
5. Effective Series Resistance 20 Ω Max
6. Drive Level 100 μW
7. Aging Rate ± 3 ppm/first year
8. Operable Temp. Range -30°C ~ 80°C
9. Insulation Resistance over 500 MΩ at DC 100 ± 15V
10. Inspection Manufacture Standard
(S & A 2200 Transmission System)

II. Mechanical Characteristics

1. Leakage : The crystal units shall be tested by leak detector(10⁻⁸ atm cc/s).
2. Shock : After following test, frequency shall not change more than ± 5ppm.
Test condition:randomly dropped from height of 30cm onto hardwood surface in 3 times.
3. Vibration : After following test, frequency shall not change more than ± 5ppm.
Frequency : 10 - 55 Hz, Amplitude : 0.75mm.
Duration : 3 mutually perpendicular planes in each 2 hours.

APPROVED BY	ORDERED BY 국제전자공업(주)	APP'D	DATE	SPEC NO. 60541 - 1
		CHK'D		
		DWG'D		
APP'D DATE:	MODEL NO. PRC-105N	ISSUED DATE 1996. 1. 31		

AEROTRON-REPCO SYSTEMS, INC.
FCC ID: N6RVHEHH-01
EXHIBIT #: 9A

CRYSTAL UNIT

SHIN SUNG ELEC.CO.,LTD

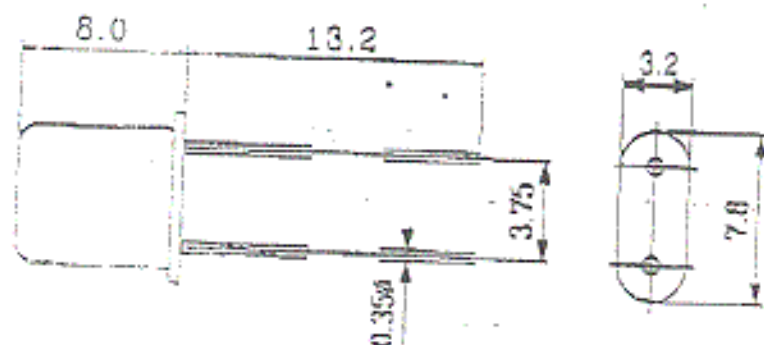
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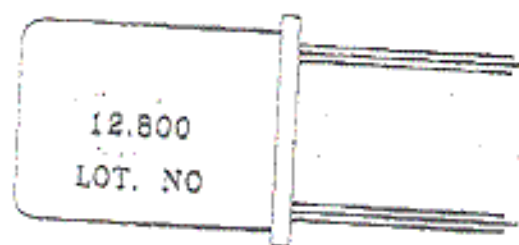
III. Dimension

UM : (RESISTANCE WELD)



DIMENSION IN mm

IV. Marking



AEROTRON-REPCO SYSTEMS, INC.

FCC ID: N6RVHFHH-01

EXHIBIT #: 93

APPROVED BY	ORDERED BY	APP'D	SPEC NO.
	복제전자공업(주)	CHK'D	
APP'D DATE:	MODEL NO.	DWG'D	SHEET 2 OF 2
	PRC-105N	ISSUED DATE	
		1996. 1. 31.	