

\*Marking should be printed as following:

Logo, Nominal Frequency

Logo: T

Nominal Frequency: (ex. 8.000 MHzv8.000)

Marking: Laser marking



## **4. INSIDE STRUCTURE**



NO.	Product name	MATERIALS	QTY
1	Blank	SIO2	1
2	Silver paste	3301F	2
3	Silver	Ag	2
4	Cove	Au	1
5	Lead	Kovar	2
6	Pin	C7701	2
7	GLASS	GLASS	2
8	Base	SPCC-SD	1
9	Insulation	PPA	1

5.MECHANICAL/ENVIRONMENTAL CHARACTERISTICS				
NO.	ITEM	CONDITIONS	SPECIFICATIONS	
		Fully immersed into hot water at $90^{\circ}C \pm 3^{\circ}C$ for 3 minutes.	no air bubble are visible.	
5.1	Leaking Test	Take measurements with a helium leakage detector, or measure insulation resistance under pressure.	$1 \times 10^{-8}$ Pa.m <sup>3</sup> /s Max or IR $\geq$ 500M $\Omega$	
5.2	Drop Test	Dropping 6 times from the height of 75 cm onto hard wooden board of thickness more than 30mm.	The crystal must meet: $\Delta   f \pm \leq   5 ppm$ $\Delta   R   \leq 15\%$	
5.3	Vibration Test	Vibration Frequency: 10~55Hz Cycle: 1.5 Min. Amplitude: 1.5mm P-P. Direction: X.Y.Z Time: 2 Hours / Each Direction	The crystal must meet: $\Delta   f \pm \leq   5 ppm$ $\Delta   R   \leq 15\%$	
5.4	Solderability Test	The terminal lead wire is to be soaked in a 230 °C $\pm 5$ °C tin trough for $5\pm0.5$ seconds.	Tin over the wire $\geq$ 90% The crystal must meet: $\Delta   f \pm \leq   5 ppm$ $\Delta   R   \leq 15\%$	
5.5	Low Temperature Enduring	The samples crystal is to be tested after being placed in the environment of $-40\pm3$ °C for 96 hours, and recovered to room temperature for 2 hours.	The crystal must meet: $\Delta   f \pm \leq   5 \text{ppm}$ $\Delta   R   \leq 15\%$	
5.6	High Temperature Enduring	The samples crystal is to be tested after being heated at $+85\pm3$ °C for 96 hours, and cooled to room temperature for 2 hours.	The crystal must meet: $\Delta   f \pm \leq   5 ppm$ $\Delta   R   \leq 15\%$	

