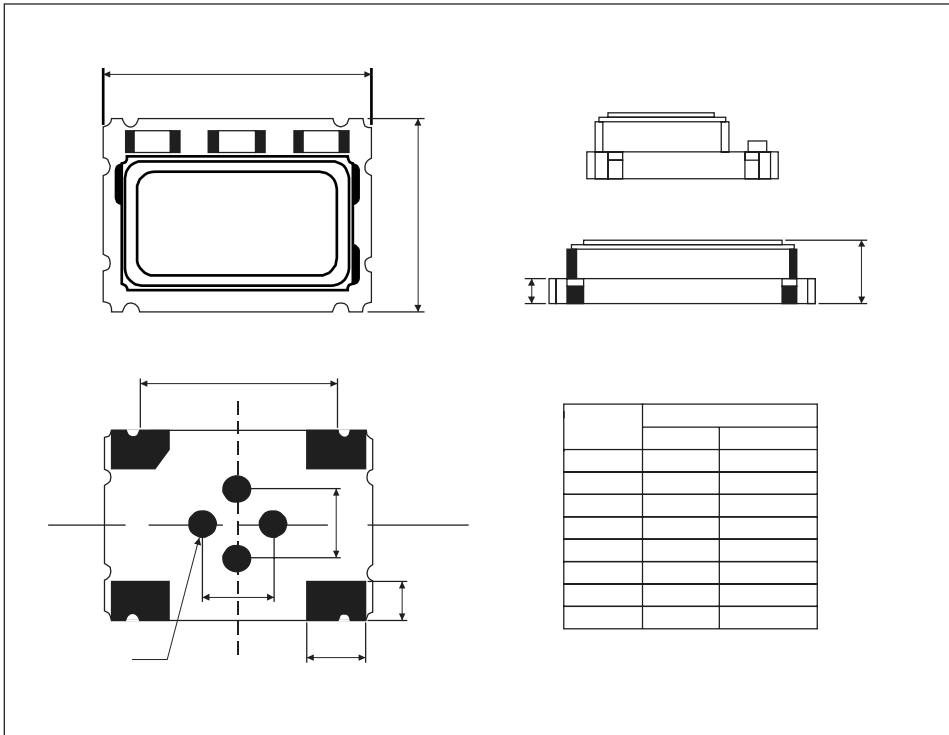


FEATURES

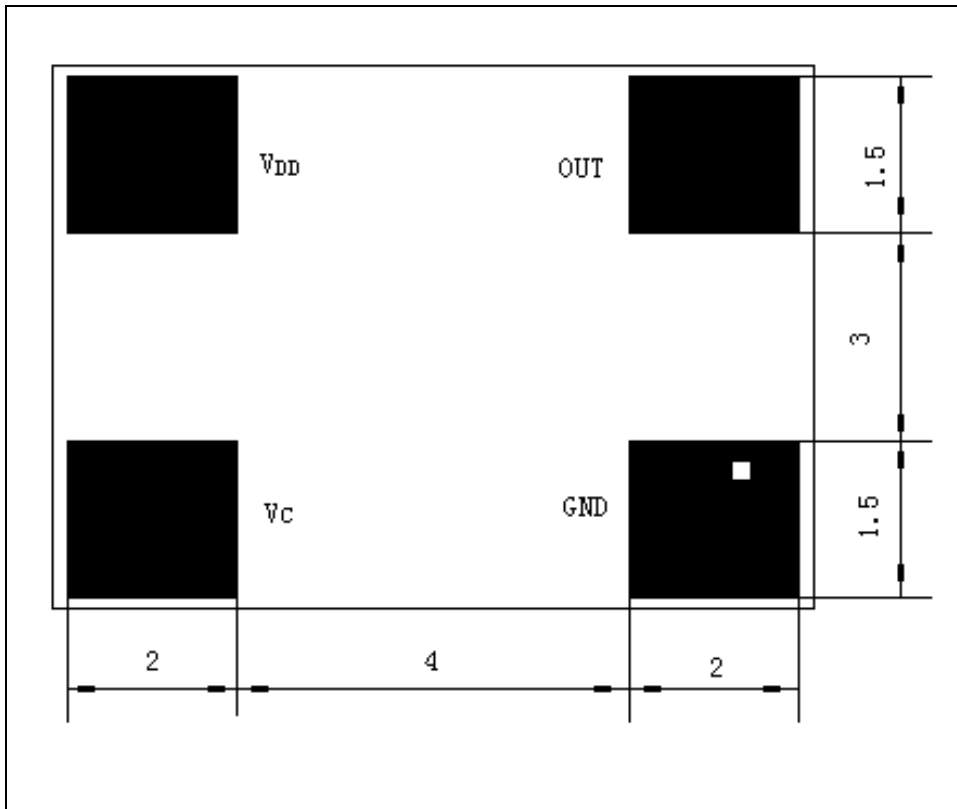


- HIGH RELIABILITY FOR LOW COST
- SMALL DIMENSIONS
- AVAILABLE WITH SUPPLY VOLTAGE OF 2.6 VOLT
- LOW POWER CONSUMPTION
- NEW STANDARD FOR SMALL LOW COST SMD-VCTCXO'S AND SMD-TCXO's
- CHEAPEST AVAILABLE SMD-VCTCXO AND SMD-TCXO IN CERAMIC PACKAGE

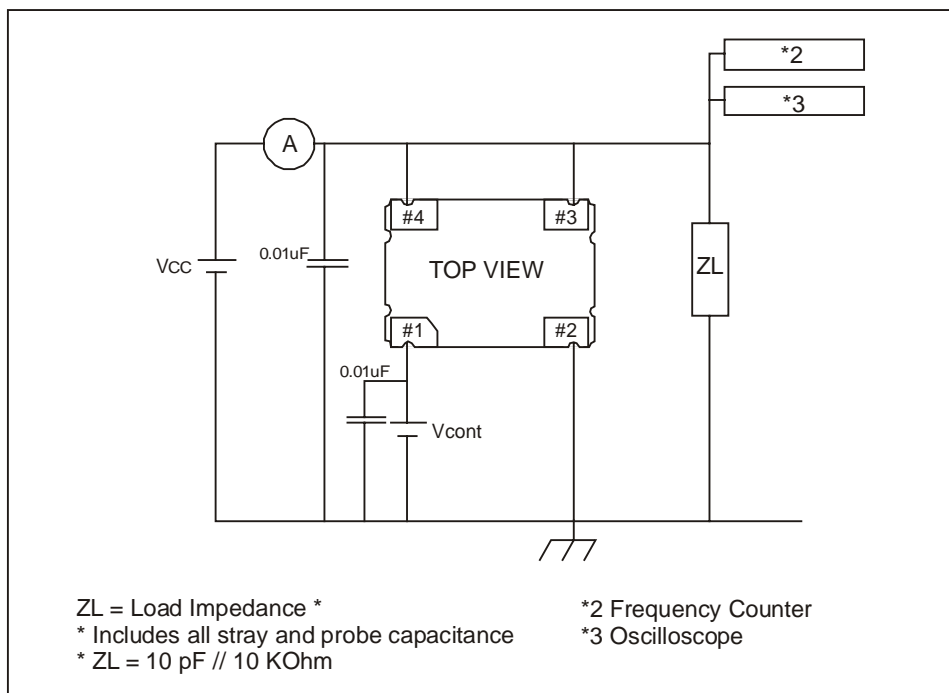
SERIES		SMD-VCTCXO	SMD-VCTCXO-0507	
		SMD-TCXO	SMD-TCXO-0507	
PACKAGE		CERAMIC PACKAGE 7 x 5 x 1.9 mm		
FREQUENCY RANGE		10.000 MHz ~ 28.000 MHz		
STANDARD FREQUENCIES		10.000 MHz; 10.245 MHz; 12.800 MHz; 13.000 MHz; 13.5625 MHz; 14.400 MHz; 15.360 MHz; 16.800 MHz; 19.200 MHz; 19.440 MHz; 19.800 MHz; 20.000 MHz		
MAXIMUM OPERATING TEMPERATURE RANGE		-40/+85°C		
STANDARD OPERATING TEMPERATURE RANGE		-30/+85°C		
STORAGE TEMPERATURE RANGE		-40/+85°C		
SUPPLY VOLTAGE RANGE		2.6 ~ 5.5 VDC		
STANDARD SUPPLY VOLTAGES		3.0 VDC +5% / 3.3 VDC +5% / 5.0 VDC +5%		
CURRENT CONSUMPTION		2 mA MAX. (LOAD 10 kΩ / 10 pF)		
INITIAL FREQUENCY ACCURACY		+0.5 ppm @ 25°C +2 °C		
FREQUENCY STABILITY	VS. TEMPERATURE	+2.5 ppm max. (-30/+85°C referred to +25°C)		
	VS. AGING	+1 ppm max. first year		
	VS. VOLTAGE CHANGE	+0.3 ppm max. (3.0 VDC +5%)		
	VS. LOAD CHANGE	+0.3 ppm max. (10 kΩ +10% / 10 pF +10%)		
FREQUENCY CHANGE AFTER REFLOW		+1 ppm max.		
OUTPUT LOAD		10 kΩ / 10 pF		
OUTPUT VOLTAGE		0.8 ~ 1.0 Vp-p MIN.		
OUTPUT SIGNAL		CLIPPED SINE WAVE		
FREQUENCY TUNING RANGE		+4 to +16 ppm		
FREQUENCY TUNING BY EXTERNAL VOLTAGE		1.5 VDC +1 VDC (or depending the supply voltage)		
HARMONICS DISTORTION		-8 dBc MAX. (-12 dBc TYP.)		
PHASE NOISE		-120 dBc/Hz @ 1 kHz (-130 dBc TYP.)		
PIN CONNECTION	SERIES	SMD-TCXO-0507	SMD-VCTCXO-0507	
	PIN 1	GROUND	VOLTAGE CONTROL	
	PIN 2	GROUND	GROUND	
	PIN 3	OUTPUT SIGNAL	OUTPUT SIGNAL	
	PIN 4	SUPPLY VOLTAGE	SUPPLY VOLTAGE	
	PIN 5	NOT CONNECT	NOT CONNECT	
	PIN 6	NOT CONNECT	NOT CONNECT	
	PIN 7	NOT CONNECT	NOT CONNECT	
PIN 8	NOT CONNECT	NOT CONNECT		
DELIVERY FORM		TAPE AND REEL		
MARKING		JYEG + FREQUENCY		
MANUFACTURER		TJE / CHINA (ISO-9001/14001 qualified)		
ORDERING CODE FOR SMD-VCTCXO		SMD-VCTCXO-0507-FREQUENCY-T		
ORDERING CODE FOR SMD-TCXO		SMD-TCXO-0507-FREQUENCY-T		
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION				



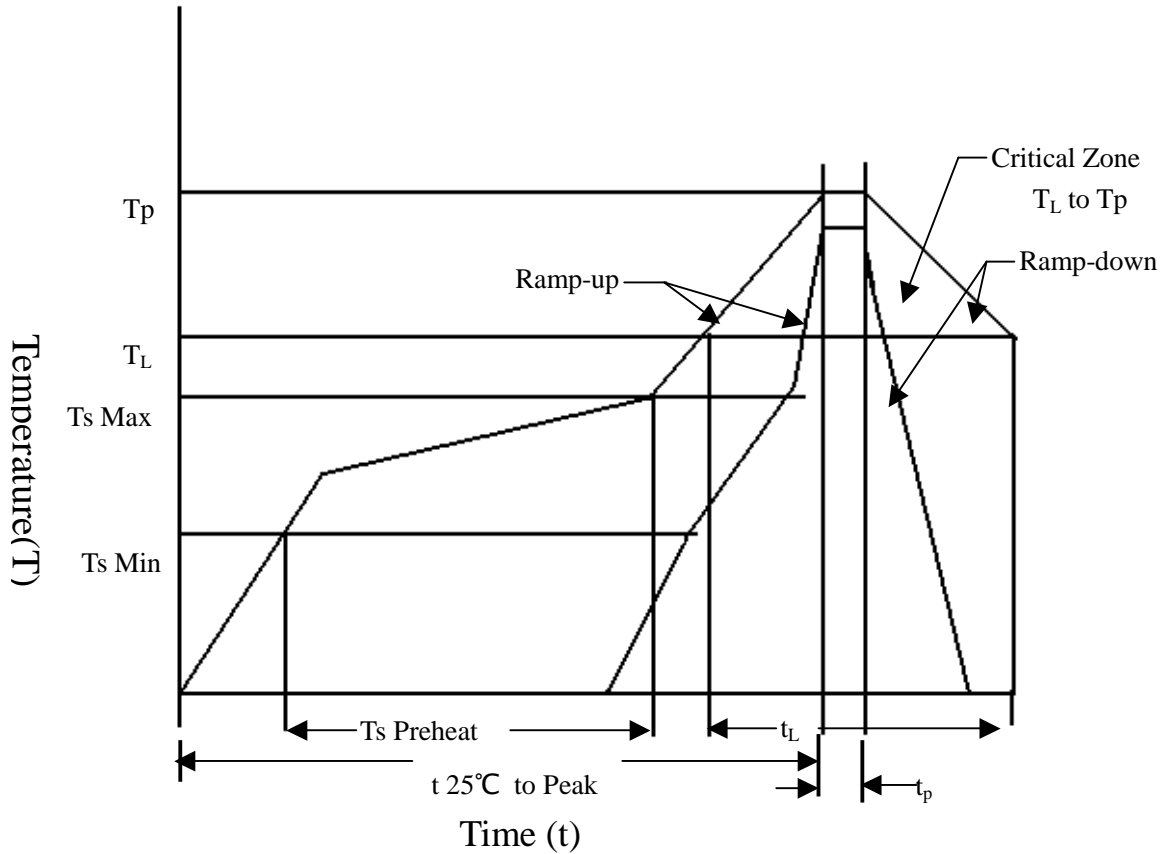
RECOMMENDED LAYOUT



TEST CIRCUIT



Solder Reflow Profile:



High Temperature Infrared /Convection

Note: Temperature shown are applied to body of device

Ts max to TL(Ramp-up Rate)	3°C/second max.
Preheat	150°C
Temperature Min(Ts Min)	175°C
Temperature Typical(Ts Typ)	200°C
Temperature Max.(Ts Max)	60-180 seconds
Time(ts)	
Ram-up Rate(TL to Tp)	3°C/second Max
Time Maintained Above:	
--Temperature(TL)	217°C
--Time(TL)	60-150 seconds
Peak Temperature (Tp)	260°C max. for 10 seconds
Target Peak Temperature(Tp Target)	250°C+0/-5°C
Time within 5°C of actual peak(tp)	20-40 seconds
Ramp-down Rate	6°C/seconds Max
Tune 25°C to Peak Temperature(t)	8 minutes Max
Moisture Sensitivity Level	Level 1

High Temperature Manual Soldering

Note: Temperature shown are applied to body of device

260°C max. for 5 seconds max., 2 times max.