2016 TCXO Series

■ Features

- 2.0 x 1.6 x 0.85 MAX. mm of surface mounted quartz crystal units with thermistor.
- Excellent reliability characteristics such as heat and mechanical shock.
- Pb-free and satisfy RoHs requirements.
- Reflow soldering is available.

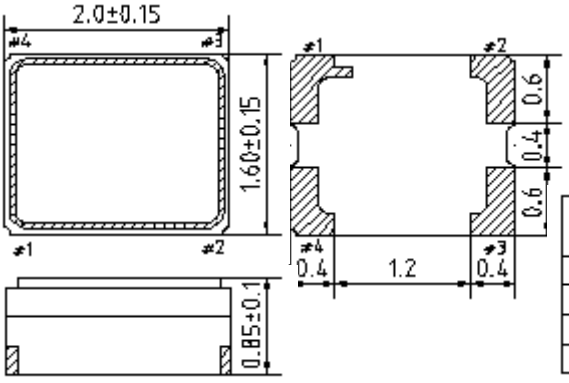
■ Applications

- Cellular phone(GSM & CDMA & WCDMA)
- GPS Module
- WIBRO,DMB,PDA
- Repeater

■ Specifications

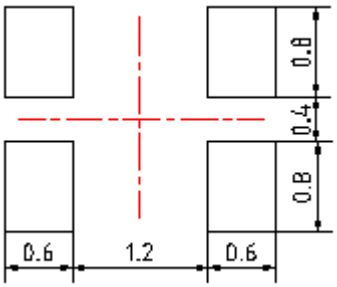
	For Cellular	For GPS
Output Frequency	8.0 MHz ~ 52.0 MHz	8.0 MHz ~ 52.0 MHz
Supply Voltage	DC +1.7V ~ +3.3V	DC +1.7V ~ +3.3V
Output Level (10kΩ//10pF)	0.8 Vp-p min.	0.8 Vp-p min.
Current Consumption	1.5 mA Max. (Below 32 MHz) 2.0 mA Max. (Above 32 MHz)	1.5 mA Max. (Below 32 MHz) 2.0 mA Max. (Above 32 MHz)
Operating Temperature Range	-30'C ~ +85'C	-30'C ~ +85'C
Storage Temperature Range	-40'C ~ +85'C	-40'C ~ +85'C
Frequency Stability		
vs. Temperature (Refer to 25'C)	±1.0, ±2.0 ppm Max.	±0.5 ppm Max.
vs. Supply Voltage (±5%)	±0.1 ppm Max.	±0.1 ppm Max.
vs. Load (10kΩ//10pF)	±0.1 ppm Max.	±0.1 ppm Max.
vs. Aging (per 1 year)	±1.0 ppm Max.	±1.0 ppm Max.
Frequency Tolerance (Initial at 25'C)	±1.0 ppm Max.	±1.0 ppm Max.
Frequency Tolerance (After Reflow)	±1.0 ppm Max.	±1.0 ppm Max.
AFC characteristics	Specify	Specify
Harmonics	-8 dBc Max.	-8 dBc Max.
Frequency Slope		
at -20 ~ 65'C	±0.1 ppm/'C Max.	±0.05 ppm/'C Max.
at -30 ~ 85'C	±0.2 ppm/'C Max.	±0.1 ppm/'C Max.

■ Dimensions (unit: mm)



Pad No.	Connection	
	TCXO	VC-TCXO
#1	AFC or GND	Vcont
#2	GND	GND
#3	OUTPUT	Output
#4	VCC	Vcc

■ Land pattern (unit: mm)



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