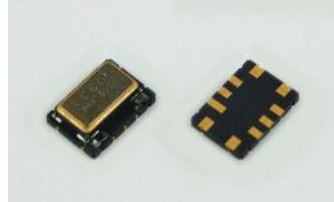


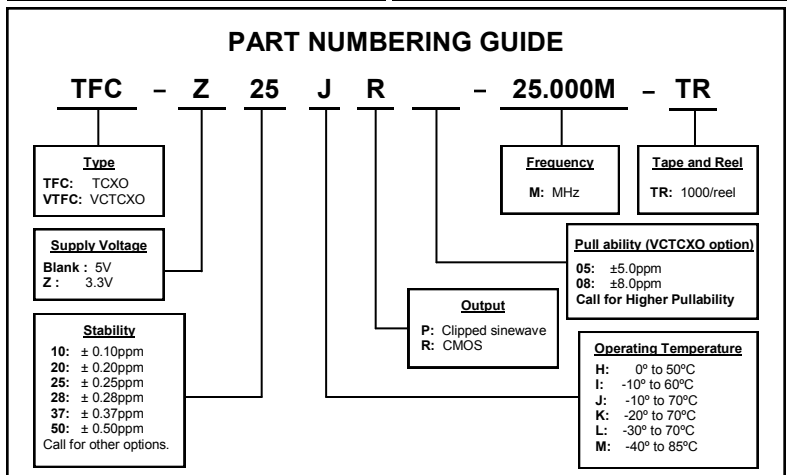
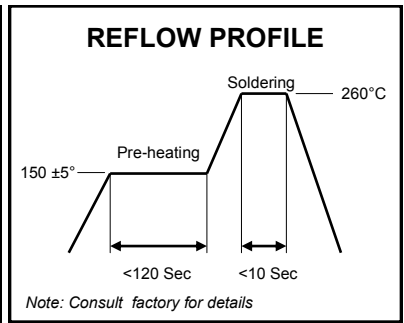
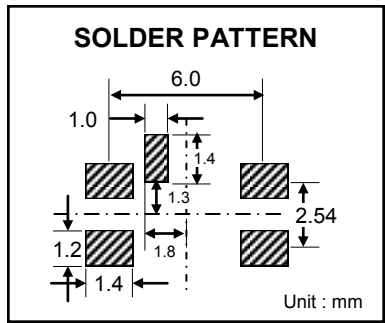
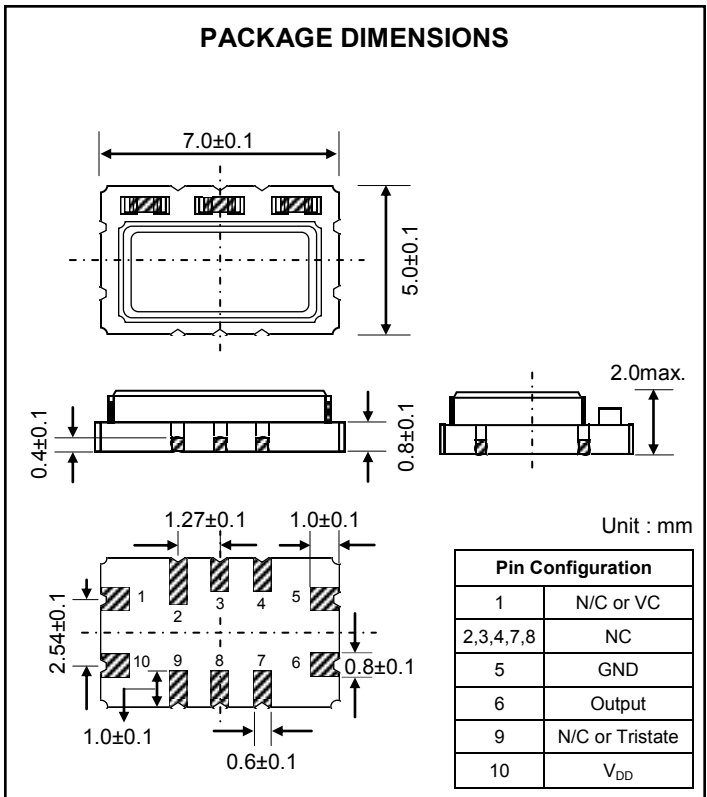
## CERAMIC SMD TCXO / VCTCXO (7.0 x 5.0 x 2.0mm)

### FEATURES

- HIGH STABILITY UP TO  $\pm 0.1\text{ppm}$
- LOW PHASE NOISE
- USED FOR FEMTOCELL APPLICATION



MODEL	TFC-R	TFC-P
FREQUENCY	5 MHz to 40 MHz	
STANDARD FREQUENCIES	5M, 6.4M, 8.192M, 10M, 12.5M, 12.8M, 16M, 16.384M, 19.44M, 25M	8.192M, 10M, 12.5M, 12.8M, 16M, 16.384M, 19.44M, 25M
FREQUENCY TOLERANCE	$\pm 2.0\text{ppm max.}$	
FREQUENCY STABILITY	Available from: $\pm 0.1\text{ppm}$ to $\pm 0.5\text{ppm}$	
FREQUENCY STABILITY	Vs. Supply Voltage ( $\pm 5\%$ ) for CMOS	
	Vs. Load ( $\pm 10\%$ )	
	Vs. Aging (after 1year)	
POWER SUPPLY	VOLTAGE	
	CURRENT	
OUTPUT	TYPE	CMOS
	LEVEL	90% min. / 10% max.
	SYMMETRY	50% $\pm 5\%$
	RISE/FALL TIME	5 nS typ, 10 nS max.
	LOAD	15pF
CONTROL VOLTAGE RANGE (VCTCXO option)	3.3V: 1.65V $\pm 1.35\text{V}$ , 5.0V: 0.5 V $\sim 4.5\text{V}$	
PULLING RANGE (VCTCXO option)	$\pm 5.0\text{ ppm min.}$	
Vc INPUT IMPEDANCE (VCTCXO option)	100K $\Omega$ min.	
PHASE NOISE @ 12.800MHz	-120dBc/Hz @ 100Hz, -140dBc/Hz @ 1KHz, -148dBc/Hz @ 10KHz	
START TIME	2mS max.	
TRI-STATE (OPTION)	Disable: 0.3V <sub>DD</sub> max., Enable: 0.7V <sub>DD</sub> min.	
STORAGE TEMP. RANGE	-55°C to 125°C	



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