

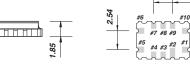
Stratum 3 compliant voltage controlled temperature compensated TCXO. A high quality, smd crystal oscillator manufactured over the frequency range of 5MHz to 26MHz.

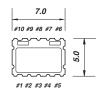
Developed for miniature applications in Base Stations, and Stratum 3 qualified systems. ±4.6ppm total tolerance including 20 years ageing.

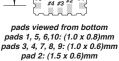
Total tolerance includes ageing, load variation and supply voltage variation, calibration tolerance and tolerance over temperature range, shock and vibration.

CMOS or clipped sine wave output, supplied on tape and reel; 1000 or 3000 pieces per reel.

## Dimensions(mm)







2.54

top view

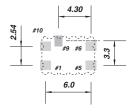
pad connections: #1 Vc:VCTCXO N/C TCXO

# 2 N/C # 3 N/C

# 4 N/C #5 ground

# 6 output # 7 N/C # 8 N/C

#9 tri-state control # 10 V<sub>DD</sub>



suggested land pattern pads 1, 5, 6, 10: (1.4 x 1.2)mm pad 9, tri state control: (1.4 x 1.0)mm

## Electrical specification:

	5.0Vd.c.		3.3Vd.c.		
	min.	max.	min.	max.	
supply voltage ±5%	4.75	5.25	3.13	3.465	Vd.c.
frequency range	(5.0 ~ 26)MHz				MHz
standard frequencies	8.192, 10, 12.80, 16.384, 19.2, 19.44, 20, 25, 26				MHz
frequency tolerance	±2			ррт	
overall frequency stability	-	±4.6	-	±4.6	ррт
vs temperature range (-20 +70)°C	-	±0.28	-	±0.28	ррт
vs temperature range (-40 +85)°C	-	±0.37	-	±0.37	ррт
vs supply voltage ±5%	-	±0.30	-	±0.30	ррт
vs load ±10%	-	±0.10	-	±0.10	ррт
vs ageing over 24 hours	-	±0.02	-	±0.02	ррт
vs 20 years ageing	-	±2.5	-	±2.5	ррт
supply current CMOS o/p	-	6	-	6	mA
supply current clipped sine wave o/p		3.5	-	3.5	mA
CMOS o/p high logic 1	90% V <sub>DD</sub>		90% V <sub>DD</sub>		V
CMOS o/p low logic 0		10% V <sub>DD</sub>		10% V <sub>DD</sub>	V
duty cycle CMOS	45	55	45	55	%
output level clipped sine wave o/p	0.8	-	0.8	-	Vp-p
load CMOS	15pF 15pF				
load clipped sine wave	10kΩ//10pF		10kΩ//10pF		
V <sub>c</sub> control voltage range	0.5	2.5	0.5	2.5	V
pulling range	±5	-	±5	-	ррт
V <sub>c</sub> input imperdance TCVCXO	100	-	100	-	kΩ
phase noise @12.80MHz +100Hz	-120 -120		20	dBc/Hz	
phase noise @12.80MHz +1kHz	-140		-140		dBc/Hz
phase noise @12.80MHz +10kHz	-148		-148		dBc/Hz
start up time	-	2	-	2	milli sec.
tri-state: active o/p	0.7V <sub>DD</sub>	-	0.7V <sub>DD</sub>	-	V
tri-state: high impedance o/p	-	0.3V <sub>DD</sub>	-	0.3V <sub>DD</sub>	V
storage temperature range	(-55 +125)°C				°C