VC-TXO-30SM SERIES TEMPERATURE COMPENSATED OSCILLATOR



The VC-TXO-30SM is a TCXO (Temperature Compensated Crystal Oscillator) featuring very tight stability over a wide temperature range. The miniature SMD ceramic package measures 5 x 7 x 2.0 mm. The voltage control feature has a frequency control range of ±5 ppm. The low profile package is ideal for wireless communications applications.

FEATURES

- Highly stable output
- Voltage Control function
- 5 x 7 mm Footprint
- RoHS Compliant

PART NUMBERING GUIDE "EXAMPLE"

SERIES		FREQUENCY		STABILITY/TEMPERATURE OPTION	STANDARD FREQUENCIES
VC-TXO-30SM	-	128	-	В	12.60, 12.80, 13.00, 14.40, 14.85, 16.80
Sample Part Number: VC_TYO_30SM_128	R 128_1	2.8 MHz R_ 20 PPM 20 75	°C		19 20 19 44 19 68 & 19 80 MH7

-TXO-30SM-128-B. 128=12.8 MHz. B= ±2.0 PPM -20 +75°C

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

DADAMETERS		VC-TXO	UNITS	
PARAMETERS	CONDITIONS			MAX
FREQUENCY RANGE		12.600	19.800	MHz
FREQUENCY TOLERANCE	TYPICAL @+25° ±2°C	-0.5	+0.5	PPM
(OPTION A)	OPER. TEMP10 ~ +60°C	-2.0	+2.0	PPM
(OPTION B)	OPER. TEMP20 ~ +75°C	-2.0	+2.0	PPM
FREQ. STABILITY/TEMP. (OPTION C)	OPER. TEMP20 ~ +75°C	-2.5	+2.5	PPM
(OPTION D)	OPER. TEMP30 ~ +80°C	-2.5	+2.5	PPM
SUPPLY VOLTAGE CHANGE	+3V ±5%	-0.2	+0.2	PPM
LOAD CHANGE	10KΩ ±10%//10 pF ±10%	-0.3	+0.3	PPM
AGING	First Year @ +25°C	-1.0	+1.0	PPM
STORAGE TEMPERATURE		-40	+85	°C
SUPPLY VOLTAGE	+3.0V DC Nominal	+2.85	+3.15	V DC
CURRENT CONSUMPTION	10KΩ ±10%//10 pF ±10%		2.0	mA
OUTPUT VOLTAGE	Clipped Sine Wave (DC-Cut)	0.8		Vp-p
OUTPUT LOAD	10KΩ ±10%//10 pF ±10%			
FREQUENCY CONTROL		±5.0		PPM
CONTROL VOLTAGE	+1.5 VDC ± 1V Positive Slope	0.5	2.5	V
SSB PHASE NOISE	-120 dBc/Hz @ 1 KHz offset			
HARMONIC DISTORTION			-3.0	dBc

Ultrasonic or Dip cleaning not to be used.

Preliminary outline drawing. Consult factory for latest revision. (Rev. 1/03).

PACKAGE DIMENSIONS (mm)



Figure 1) VC-TX0-30SM - Top, Side and Bottom views

VC-TXO-	BOSM PIN CONN	ECTIONS
#1	V CONTF	ROL
#2	GND	
#3	OUTPU	T
#4	Vcc	



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