# **EURO**QUARTZ

# EM53T TCXO

6.4MHz to 52MHz

# 5.0 x 3.2mm SMD CMOS TCXO

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- Miniature SMD 5 x 3.2 x 1.3mm package
- Frequency range: 6.4MHz to 52MHz •
- Close tolerance stability available from ±0.5ppm
- Supply voltage 1.8V, 2.5V, 3.0V, 3.3V
- Very low power consumption

#### DESCRIPTION

(V)EM53T series TCXOs are packaged in a 5.0 x 3.2mm ceramic SMD case. With CMOS output, tolerances are available from ±1.0ppm over -40° to +85°C. The part exhibits low supply current, 6mA max. at 3.3V.

## SPECIFICATION

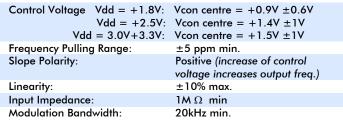
Product Series Code					
TCXO:	EM53T				
VCTCXO:	VEM53T				
Frequency Range:	6.4MHz to 52MHz				
Output Waveform:	CMOS				
Initial Calibration Tolerance:	<±2ppm at 25°C ±2°C				
Standard Frequencies:	10.0, 12.8, 13.0, 14.7456,				
	16.0, 16.384, 19.2, 19.44,				
	19.680, 20.0, 25.0, 27.0 MHz				
Operating Temperature Stab:	See table				
Frequency Stability vs. Ageing:	±1.0 ppm max/Year at +25°C				
vs. Voltage Change:	±0.3 ppm max. ±5% change				
vs. Load Change:	±0.3 ppm max. ±10% change				
vs. Reflow (SMD type):	±1.0ppm max. for one reflow				
	(measured after 24 hours)				
Supply Voltage:	+1.8VDC±5%,+2.5VDC±10%,				
	+3.0VDC±10%,+3.3VDC±10%				
Output Load:	15pF				
Current Consumption:	6mA max.				
Duty Cycle:	50% ±10% standard,				
	50% ±5% as option				
Storage Temperature:	-55°C to +125°C				

### **FREQUENCY STA**

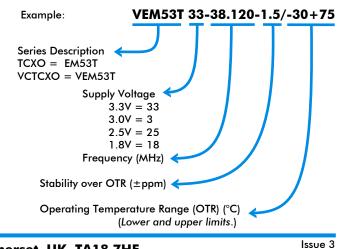
ABILITY OVE	R OPERATING TEA	<b>ЛР</b> ±1.0 ppm	+1	2 Gr 3 Ou		Т			
ature:	-55°C to	+125°C			TCXO: Control Vol	•			
	50% ±5%	as option		Pad (	Connections				
nption:		6mA max. 50% ±10% standard,			Bottom View				
	15pF	,			1.1±0.1				
		2±10%,+3.3VDC±1			4 3				

Stability	±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
0°C to +50°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-10°C to +60°C	ASK	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-20°C to +70°C	Х	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-30°C to +75°C	Х	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-30°C to +85°C	Х	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-40°C to +85°C	Х	ASK	ASK	ASK	$\checkmark$	$\checkmark$

# **VEM53T VOLTAGE CONTROL SPECIFICATION**



### PART NUMBERS





### **EM53T- OUTLINES AND DIMENSIONS**

5.0±0.1

3.2±0.

0.7±0.1

