

- 8 pin DIL package with trimmer
- Wide frequency range: 27.0MHz to 200.0MHz
- Supply voltage 3.3 Volts
- Frequency stability from ±1ppm over -30 to +75°C

DESCRIPTION

EMV9T series TCXOs are packaged in an 8 pin DIL package with mechanical trimmer. With squarewave (CMOS) output, tolerances are available from ± 1.0 ppm over -30° to $+75^{\circ}$ C. The part has a 0.01μ F decoupling capacitor built in.

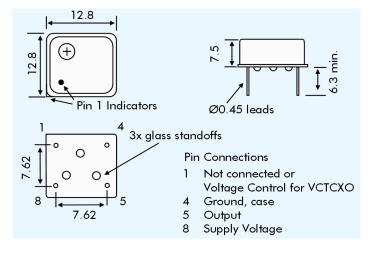
SPECIFICATION

Product Series Co	de					
Froduct Series Co	TCXO:	ΕΜ V9T				
	VCTCXO:	VEMV9T				
Frequency Range		27.0MHz to 200.0MHz				
Output Waveform		Squarewave, HCMOS				
Initial Calibration		Squarewave, memos				
	without trimmer:	<±2.0ppm				
	with trimmer:	<±1.0ppm				
Standard Freque		30.0, 32.768, 38.880, 40.0,				
olaliaara riequei	leies.	50.0, 54.0, 64.0, 65.536,				
		77.76, 80.0, 128.0, 160.0				
		and 200.0MHz				
		(Partial list)				
Operating Tempe	erature Ranae:	See table				
Mechanical Frequ		±3.0ppm minimum				
Frequency Stabili						
vs. Age	ing:	±1.0 ppm max. first year				
vs. Volt	age Change:	±0.3 ppm max. ±5% change				
	d Change:	±0.3 ppm max. ±10% change				
vs. Refle	ow (SMD type):	±1.0ppm max. for one reflow				
		(Measured after 24 hours)				
Supply Voltage:		+3.3 Volts				
Output Logic Leve	els:	Logic High: 90% Vdd min.				
		Logic Low: 10% Vdd max.				
Current Consumption:		40mA maximum				
Rise and Fall Times:		10ns typical				
Duty Cycle:		50%±10% standard,				
Start-up Time:		5ms typical, 10ms max.				
Current Consumption:		See table below				
Output Load: Storage Tempera		15pF				
		-55~+125°C				

HCMOS 8 pin DIL, 'V' Group



EMV9T - OUTLINES AND DIMENSIONS



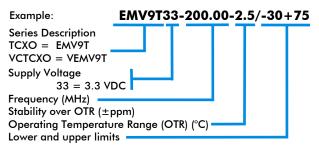
VEMV9T VOLTAGE CONTROL SPECIFICATION

Control Voltage:	Standard = +1.5±1.0Volts for all input voltages. (Contact technical sales if +2.5±2.0 Volts is required.)
Frequency Deviation:	± 6.0 ppm min. (Vcon = $+4.5V \pm 1.0V$)
Slope Polarity:	Positive (increase of control voltage increases output frequency.)
Input Impedance:	2MΩ minimum
Modulation Bandwidth:	25kHz minimum
Linearity:	±10% maximum

SSB PHASE NOISE at 25°C

	Offset	10Hz	100Hz	1kHz	10kHz	100kHz
Part = EMV9T33	at 77.760Mhz (dBc/Hz)	-80	-110	-135	-130	-132
	at 155.520Mhz (dBc/Hz)	-80	-110	-125	-120	-125

PART NUMBERING SCHEDULE



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FREQUENCY STABILITY

Stability	v (ppm)	±0.5	±1.0	±1.5	±2.0	±2.5	±3.0
Temp. Range (°C)	0 ~ +50	~	~	~	~	~	~
	-10 ~ +60	ASK	~	~	~	~	~
	-20 ~ +70	Х	~	~	~	~	~
	-30 ~ +75	Х	~	~	~	~	~
	-40 ~ +85	Х	Х	х	ASK	ASK	~

I = available, x = not available, ASK = call Technical Sales