

RADITEK INC.

OVEN CONTROLLED CRYSTAL OSCILLATORS

code-w



ROCXO-OC26 SERIES

- Stability up to $\pm 0.05 \times 10^{-6}$
- Low Aging
- Compact Package
- PCS Base Stations
- Cellular Base Stations
- Synthesizer
- Measurement Equipment
- Digital Switching

Performance Characteristics

Parameter		OC26				
Frequency Range		F ₀ 1.000MHz~100.000MHz				
Standard Frequency(MHz)		F ₀ 4.096 5 8.192 10 16.384 20				
Frequency Accuracy		±0.1PPM (center control voltage)				
Supply Voltage		V _{DD} B: +5.0VDC±10%		C: +12.0VDC±10%		
Supply	Warming State	3.6W Max				
Consumption	Steady State	1.5W Max (at 25°C)				
Output Load		A: TTL 15pF B: TTL 50pF	C: CMOS 15pF D: CMOS 50pF	G: Sine Wave		
Output Duty		45%~55%			—	
Control Voltage Range		See Ordering Information				
Frequency Stability	Temperature Range	±2×10 ⁻⁷ (reference to frequency at 25°C V _{DD} ±5%)				
	Power Supply	±5×10 ⁻⁹ (V _{DD} ±5%)				
	Load	±5×10 ⁻⁹ (5% change from 50Ω)				
Vs	Warm up Time	<7min (to be within ±10 ⁻⁸ ×F ₀ , F ₀ Refers to Frequency after 1h operation)				
Rise Time/Fall Time		Tr/Tf 10nS Max		—		
Output Level	"0"Level	V _{OL} 0.4V Max	10%V _{DD}		>0dBm//50Ω	
	"1"Level	V _{OH} 2.4V Min	90%V _{DD}			
Storage Temperature Range		T _{STG} -40°C~+100°C				
Aging (After 30 days, at+25°C)		B: ±5×10 ⁻⁹ /day / ±5×10 ⁻⁷ /year / ±3×10 ⁻⁶ /10 year C: ±1×10 ⁻⁹ /day / ±1×10 ⁻⁷ /year / ±1×10 ⁻⁶ /10 year				
Phase Noise (at 10MHz)		1Hz	10Hz	100Hz	1KHz	10KHz
		-80dBc/Hz	-120dBc/Hz	-140dBc/Hz	-145dBc/Hz	-150dBc/Hz
Internal Reference Voltage		4V±0.08(V _{DD} =5V)			8V±0.16(V _{DD} =12V)	
Slope and Linearity		Positive / ±10%				

Frequency Stability Over Temperature Range

Temperature Range	Frequency Stability				
	D: ±5×10 ⁻⁸	E: ±1×10 ⁻⁷	F: ±2×10 ⁻⁷	G: ±3×10 ⁻⁷	H: ±5×10 ⁻⁷
A: 0°C~+50°C	●	●	●	●	●
B: -10°C~+60°C		●	●	●	●
C: -20°C~+70°C		●	●	●	●
E: -40°C~+75°C				●	●

ROCXO-OC26 Series-w

Specifications may be subject to change

10/10/06

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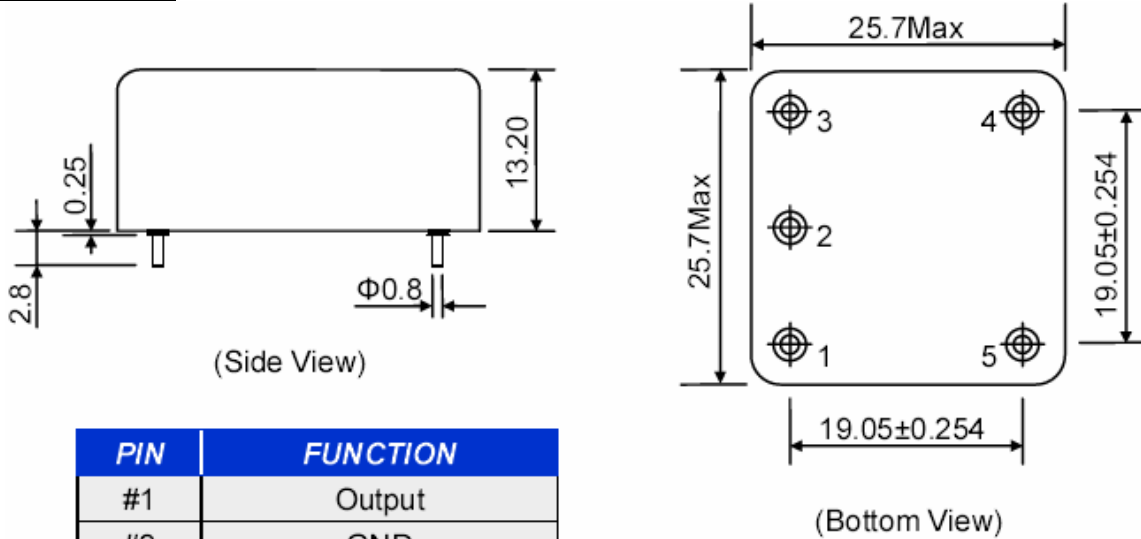
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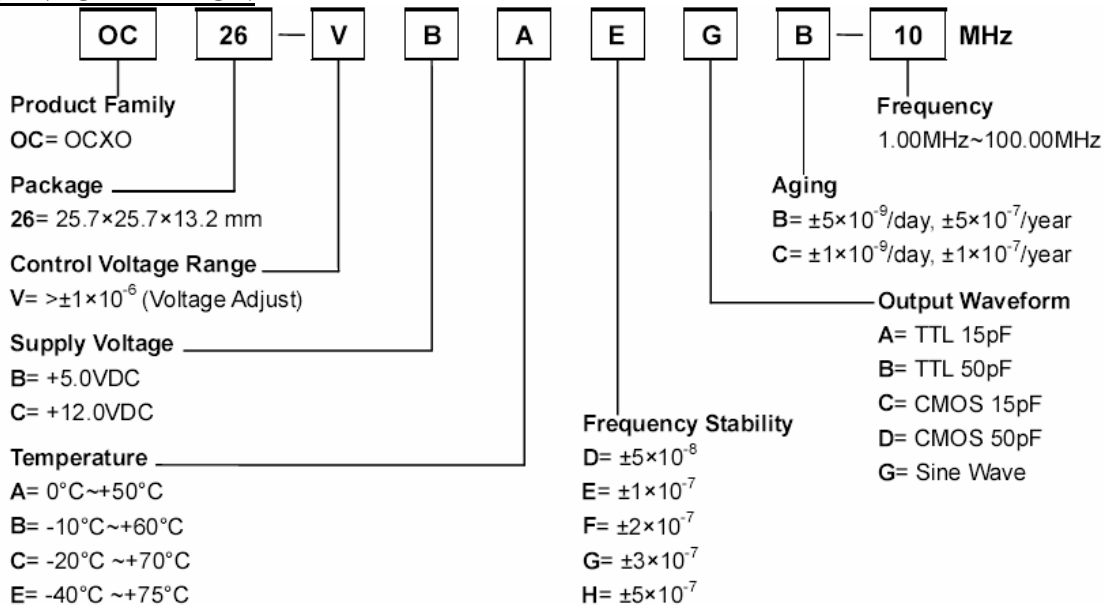
ROC XO-OC26 SERIES

OUTLINE DRAWING (units in mm – not to scale)



PIN	FUNCTION
#1	Output
#2	GND
#3	Control Voltage/NC
#4	Reference Voltage/NC
#5	+DC

ORDERING INFORMATION



ORDERING EXAMPLE

OC26-VBAEGB-10MHz

OCXO / $>\pm 1 \times 10^{-6}$ (Voltage Adjust) / +5.0VDC / 0°C~+50°C / $\pm 1 \times 10^{-7}$ / Sine Wave / $\pm 5 \times 10^{-9}$ /day, $\pm 5 \times 10^{-7}$ /year / 10MHz

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