EC26 Series

- RoHS Compliant (Pb-Free)
- Ceramic SMD package
- 3.3V supply voltage
- LVHCMOS/TTL output
- Stability to 20ppm
- Standby Function
- Available in tube or tape and reel





ELECTRICAL SPECIFICATIONS

Frequency Range		1 E//MUz to 12E 000MUz and 1	125 000MU- 125 000275	MU- 125 010MU- 127MU-	120MU- 120MU- 121	OMU~	
Operating Temperature Range		1.544MHz to 125.000MHz and 125.009MHz, 125.009375MHz, 125.010MHz, 127MHz, 128MHz, 130MHz, 132MHz, 133MHz, 137.472MHz, 142.850MHz, 155.520MHz and 156.250MHz					
		Frequency Tolerance/Stability options of ±100ppm, ±50ppm, ±25ppm, ±20ppm available				-10°C to 70°C	
operating reinperature Range		Frequency Tolerance/Stability options of ±100ppm, ±50ppm, ±25ppm available			-40°C to 85°C		
Storage Temperature Range		Frequency Tolerance/Stability option of ±20ppm available from 1.544MHz to 106.250MHz				-55°C to 125°C	
Supply Voltage (V						3.3V _{DC} ±10%	
Input Current		1.544MHz to 32.000MHz				10mA Maximum	
		32.00001MHz to 50.000MHz				18mA Maximum	
		50.000001MHz to 70.000MHz			20mA Maximun		
		70.00001MHz to 125.000MHz				40mA Maximum	
		125.009MHz to 156.250MHz				60mA Maximum	
Frequency Tolerance / Stability Output Voltage Logic High (V _{OH})		Inclusive of all conditions: Calibration Tolerance at 25°C,				±100ppm Maximum	
		Frequency Stability over the Operating Temperature Range,				±50ppm Maximum	
		Supply Voltage Change, Output Load Change, First Year Aging				±25ppm Maximum	
		at 25°C, Shock, and Vibration				±20ppm Maximum	
						90% of V _{DD} Minimum	
		- /				10% of V _{DD} Maximum	
Output Voltage Logic Low (V _{OL}) Rise / Fall Time		10% to 90% of Waveform w/15pF HCMOS Load or $0.4V_{DC}$ to $2.4V_{DC}$ w/10LSTTL Load \leq 35.000MHz				5 nSeconds Maximum	
		10% to 90% of Waveform w/30pF HCMOS Load or $0.4V_{DC}$ to $2.4V_{DC}$ w/10TTL Load ≤ 35.000 MHz				7 nSeconds Maximum	
		10% to 90% of Waveform w/HCMOS Load or 0.4V _{DC} to 2.4V _{DC} w/TTL Load 35.001MHz to 125.000MHz				5 nSeconds Maximum	
		10% to 90% of Waveform w/HCMOS Load > 125.009MHz				3 nSeconds Maximum	
Duty Cycle		at 50% of Waveform w/HCMOS Load or 1.4V _{DC} w/TTL Load ≤ 70.000MHz				50 ±10(%) (Standard)	
		at 50% of Waveform w/HCMOS Load > 70.000MHz				50 ±10(%) (Standard)	
		at 50% of waveform w/HCMOS Load or w/TTL Load ≤ 125.000MHz				50 ±5(%) (Optional)	
		at 50% of waveform w/HCMOS Load, at 25°C, at 3.3Vdc > 125.000MHz				50 ±5(%) (Optional)	
Load Drive Capability		<35.000MHz				10TTL or 30pF HCMOS Load Max.	
		35.00001MHz to 70.000MHz >70.00001MHz				10TTL or 15pF HCMOS Load Max.	
						15pF HCMOS Load Maximum	
Tri-State Input Voltage Standby Current		No Connection				Enables Output	
		V _{TH} :≥70% of V _{DD}				Enables Output	
		$V_{11} := 70\% \text{ of } V_{00}$ $V_{11} := 30\% \text{ of } V_{00}$				Disables Output: High Impedance	
		Disabled Output: High Impedance				10μA Maximum	
Start Up Time		Disabled Suspending Impedance				10 mSeconds Maximum	
RMS Phase Jitter		12kHz to 20MHz offset frequency				1pSeconds Maximum	
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MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV - DAT	
ECLIPTEK CORP.	OSCILLATOR	EC26	CERAMIC	3.3V	0S30	01/06	

PART NUMBERING GUIDE

FREQUENCY TOLERANCE / STABILITY O0=±100ppm Maximum (Standard) 45=±50ppm Maximum, 25=±25ppm Maximum 20=±20ppm Maximum FREQUENCY OPERATING TEMPERATURE RANGE Blank=-10°C to 70°C (Standard) TS=Tri-State

Blank=-10°C to 70°C (Standard) ET=-40°C to 85°C

DUTY CYCLE Blank=50 ±10(%) (Standard), T=50 ±5(%)

