

查询"EC29"供应商

EC29 Series

- RoHS Compliant (Pb-Free)
- LVHCMOS output
- 1.8V Supply Voltage
- Ceramic SMD package
- Stability to 20ppm
- Standby Function
- Available on Tape and Reel



ECLIPTEK[®]
CORPORATION



ELECTRICAL SPECIFICATIONS

Frequency Range (F ₀)	1.544MHz to 80.000MHz and 98.304MHz, 100.000MHz, 106.250MHz, 110.000MHz, 125.000MHz	
Operating Temperature Range (OTR)	0°C to 70°C	-40°C to 85°C
Storage Temperature Range (STR)	-55°C to 125°C	
Supply Voltage (V _{DD})	1.8V _{DC} ±5%	
Input Current (I _{DD})	1.544MHz to 10.000MHz	2mA Maximum
	10.001MHz to 25.000MHz	3mA Maximum
	25.001MHz to 40.000MHz	4mA Maximum
	40.001MHz to 50.000MHz	8mA Maximum
	50.001MHz to 70.000MHz	10mA Maximum
	70.001MHz to 100.000MHz	18mA Maximum
	100.001MHz to 110.000MHz	20mA Maximum
	110.001MHz to 125.000MHz	25mA Maximum
Frequency Tolerance/Stability	Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration	±100ppm, ±50ppm, ±25ppm, or ±20ppm
Output Voltage Logic High (V _{OH})	I _{OH} =-2.8mA, 1.544MHz to 40.000MHz I _{OH} =-8mA, 40.001MHz to 125.000MHz	90% of V _{DD} Minimum 90% of V _{DD} Minimum
Output Voltage Logic Low (V _{OL})	I _{OL} =2.8mA, 1.544MHz to 40.000MHz I _{OL} =8mA, 40.001MHz to 125.000MHz	10% of V _{DD} Maximum 10% of V _{DD} Maximum
Rise Time / Fall Time (T _R /T _F)	< 40.000MHz 10% to 90% of Waveform ≥ 40.000MHz 10% to 90% of Waveform	6 nSeconds Maximum 3 nSeconds Maximum
Duty Cycle (SYM)	at 50% of Waveform at 50% of Waveform	50 ±10(%) (Standard) 50 ±5(%) (Optional)
Load Drive Capability (C _{LOAD})	15pF HCMOS Load Maximum	
Tri-State Input Voltage	No Connection V _{IH} : ≥90% of V _{DD} V _{IL} : ≤10% of V _{DD}	Enables Output Enables Output Disables Output: High Impedance
Standby Current	Disabled Output: High Impedance, 1.544MHz to 40MHz Disabled Output: High Impedance, 40.001MHz to 70MHz Disabled Output: High Impedance, 70.001MHz to 125MHz	10µA Maximum 100µA Maximum 10µA Maximum
Start Up Time (T _S)	10 mSeconds Maximum	
RMS Phase Jitter	12kHz to 20MHz offset frequency	

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EC29

PACKAGE
CERAMIC

VOLTAGE
1.8V

CLASS
OS1B

REV. DATE
01/06

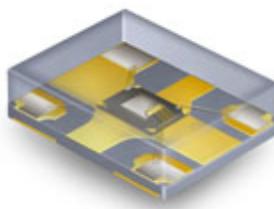


ECLIPTEK®
CORPORATION

Ecliptek
MEMS Oscillators

Ecliptek MEMS Oscillators
- *Lower Cost, Quicker Delivery Alternative!*

The EMO™ family of oscillators offers exceptional performance, shorter delivery and significant cost advantages by utilizing a revolutionary new MEMS resonator technology. This important innovation enables Ecliptek to offer the ultimate in flexibility with delivery of 2 days for samples and 5 to 10 days for quantities up to 10,000 pieces on tape and reel.



Supply Voltage (V _{DC})	Package Dimensions (all dimensions in millimeters)			
	5 x 7	3.2 x 5	2.5 x 3.2	2 x 2.5
1.8	EMK11	EMK21	EMK31	EMK41
2.5	EMK12	EMK22	EMK32	EMK42
3.3	EMK13	EMK23	EMK33	EMK43

Would you like to request EMO™ samples or a quotation now?

[Click Here](#)

Want to learn more about the Ecliptek EMO™ family of MEMS oscillators?

[Click Here](#)

Product Features:

- Improved frequency stability through the use of a MEMS resonator
- 1.8VDC, 2.5VDC, or 3.3VDC supply voltages
- Frequency range of 1MHz to 125MHz, HCMOS output
- Frequency stability to $\pm 50\text{ppm}$, -40°C to +85°C operation
- Tri-state or power down functions
- RoHS compliant
- High temperature +260°C reflow capability
- EIA compliant tape and reel packaging
- Four SMD package sizes

If you have any questions or would like additional information regarding the Ecliptek EMO™ family of oscillators, please contact our [Sales Department](#).