

Product EOL Announcement

The Product EOL Announcement signifies that a product series has entered the final phase of the Ecliptek Product Life Cycle, and serves as advance notice of product termination per the Ecliptek End of Life (EOL) policy.

Ecliptek Corporation announces End of Life initiation for the following product series with the intent of discontinuing its availability.

EOL Series	Description
EC3SM	4.0mm Epoxy Base SMD Crystal

EOL Timeline

The last date Ecliptek will accept orders (Stage 2) and the last date orders may be scheduled for shipment (Stage 3) are listed in the table below.

Stage 1 EOL Announce Date	Stage 2 Last Date to Order	Stage 3 Last Date to Ship
5-April-2011	31-December-2011	31-March-2012

Alternative Products

In order to fulfill your requirements beyond this product's discontinuation, we invite you to evaluate the recommended alternative Ecliptek product series referenced below. Please click on the link to view the data sheet.

Alternative Series	Description
<u>E1S</u>	RoHS Compliant (Pb-free) Resistance Welded Short HC-49/UP SMD Crystal

Automated EOL Notification

Ecliptek offers automated notification of Product EOL Announcements. Place part numbers for which you'd like to receive EOL Notifications into your personalized <u>Parts List</u> on our website and we'll email you when EOL is announced.

Please do not hesitate to contact us if you have any questions or need further assistance.

Ecliptek Global Customer Support Team (800) 433-1280 x300 customersupport@ecliptek.com

All product warranties for discontinued products will be honored in full according to Ecliptek Terms and Conditions of Sale.

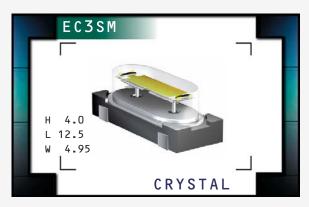
EC3SM Series

- Four pad surface mount short package
- AT-Cut

NOTES

- Resistance weld seal
- Tight tolerance/stability
- Interchangeable with plastic surface mount crystals
- Tape and reel available





ELECTRICAL SPECIFICATIONS

Frequency Range	3.579545MHz to 30.000MHz		
Frequency Tolerance / Stability	±50ppm/±100ppm (Standard), ±30ppm/±50ppm, ±15ppm/±30ppm,		
Over Operating Temperature Range	or ±15ppm / ±20ppm		
Operating Temperature Range	0°C to 70°C (Standard), -20°C to 70°C or -40°C to 85°C		
Aging (at 25°C)	±5ppm / year Maximum		
Storage Temperature Range	-40°C to 85°C		
Shunt Capacitance	7pF Maximum		
Insulation Resistance	500 Megaohms Minimum at 100V _{DC}		
Drive Level	1 mWatt Maximum		
Load Capacitance (C _L)	10pF, 12pF, 13pF, 14pF, 15pF, 16pF, 18pF, 20pF, 22pF, 24pF, 27pF, 30pF, 32pF, 33pF Parallel Resonant,		
	or Series Resonant		
			

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT

Frequency Range	ESR (Ω)	Mode / Cut	Frequency Range	ESR (Ω)	Mode / Cut
3.579545MHz to 4.999MHz	200 Max	Fundamental / AT	10.000MHz to 14.999MHz	70 Max	Fundamental / AT
5.000MHz to 5.999MHz	150 Max	Fundamental / AT	15.000MHz to 15.999MHz	60 Max	Fundamental / AT
6.000MHz to 7.999MHz	120 Max	Fundamental / AT	16.000MHz to 23.999MHz	50 Max	Fundamental / AT
8.000MHz to 8.999MHz	90 Max	Fundamental / AT	24.000MHz to 30.000MHz	40 Max	Fundamental / AT
9.000MHz to 9.999MHz	80 Max	Fundamental / AT			

MANUFACTURER PACKAGE CRYSTAL **EPOXY BASE SHORT**

PART NUMBERING GUIDE

EC3SM _ - <u>20</u> - <u>28.375M</u> <u>TR</u>

FREQUENCY TOLERANCE / STABILITY

Blank= ± 50 ppm at 25°C, ± 100 ppm from 0°C to 70°C A= ± 50 ppm at 25°C, ± 100 ppm from -20°C to 70°C B= ± 50 ppm at 25°C, ± 100 ppm from -40°C to 85°C C= ± 30 ppm at 25°C, ± 50 ppm from 0°C to 70°C D= ± 30 ppm at 25°C, ± 50 ppm from -20°C to 70°C E= ± 30 ppm at 25°C, ± 50 ppm from -40°C to 85°C F= ± 15 ppm at 25°C, ± 30 ppm from 0°C to 70°C G= ± 15 ppm at 25°C, ± 30 ppm from -20°C to 70°C J= ± 15 ppm at 25°C, ± 20 ppm from 0°C to 70°C

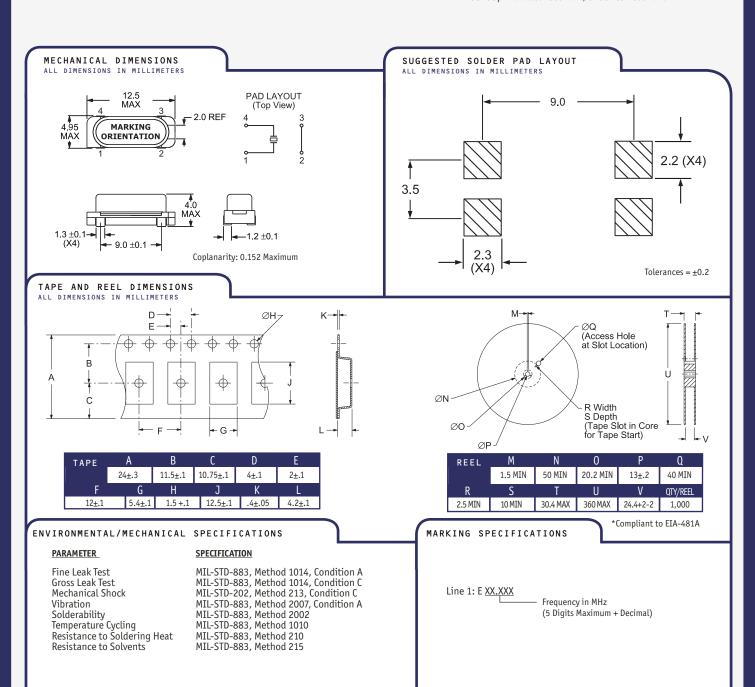
PACKAGING OPTIONS

Blank=Bulk, TR=Tape and Reel

FREQUENCY

LOAD CAPACITANCE

Blank=18pF Parallel Resonant 10=10pF Parallel Resonant, 12=12pF Parallel Resonant, 13=13pF Parallel Resonant, 14=14pF Parallel Resonant, 15=15pF Parallel Resonant, 16=16pF Parallel Resonant, 20=20pF Parallel Resonant, 22=22pF Parallel Resonant, 24=24pF Parallel Resonant, 27=27pF Parallel Resonant, 30=30pF Parallel Resonant, 32=32pF Parallel Resonant, 33=33pF Parallel Resonant, S=Series Resonant



SERIES

EC3SM

CATEGORY

CRYSTAL

CLASS

CR32

REV . DATE

04/11

PACKAGE

EPOXY BASE SHORT

MANUFACTURER

ECLIPTEK CORP.