

## **Marketing Bulletin**

**DATE:** June 23<sup>rd</sup>, 2006

TO: All Sales Personnel

FROM: Mark Stoner

**RE:** Product Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective July 1<sup>st</sup>, 2006:

Series Description Recommended Replacement

EC3SM1 Four pad SMD Crystal EC3SM EC4SM1 Four pad SMD Crystal EC4SM

In compliance with our End of Life (EOL) policy, this will serve as advanced notice of product termination. New orders will not be accepted after September 31<sup>st</sup>, 2006, with delivery to conclude by December 31<sup>st</sup> 2006.

If there are any questions pertaining to this bulletin, please fell free to contact me. Thank you again for your cooperation.

Best Regards,

Mark W. Stoner

Vice President of Marketing

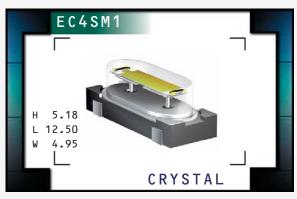
Mark W Somer

**Ecliptek Corporation** 

# **EC4SM1 Series**

- Four pad surface mount package
- AT or BT cut available
- Resistance weld seal
- Tight tolerance/stability
- Interchangeable with plastic surface mount crystals
- Tape and reel available





### NOTES

#### **ELECTRICAL SPECIFICATIONS**

Frequency Range	7.3728MHz, 20.000MHz, 30.000MHz, and 33.333MHz			
Frequency Tolerance / Stability	±50ppm/±100ppm (Standard), ±30ppm/±50ppm (AT cut only), ±15ppm/±30ppm (AT cut only),			
Over Operating Temperature Range	or ±15ppm / ±20ppm (AT cut only)			
Operating Temperature Range	0°C to 70°C (Standard), -20°C to 70°C (AT cut only), or -40°C to 85°C (AT cut only)			
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 <sub>DC</sub>			
Drive Level	1 mWatt Maximum			
Load Capacitance (C <sub>L</sub> )	18pF (Standard), Custom C <sub>L</sub> ≥10pF, or Series Resonant			

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

Nominal Frequency	ESR $(\Omega)$	Mode / Cut	Nominal Frequency	ESR ( $\Omega$ )	Mode / Cut
7.3728MHz	120 Max	Fundamental / AT	30.000MHz	40 Max	Fundamental / AT
20.000MHz	50 Max	Fundamental / AT	33.333MHz	40 Max	Fundamental / BT
				1	

800-ECLIPTEK www.ecliptek.com for latest revision

CRYSTAL

Specifications subject to change without notice.

**EPOXY BASE** 

ECLIPTEK CORP.

#### PART NUMBERING GUIDE

#### EC4SM1 - B - 20 - 33.333M TR **PACKAGING OPTIONS** FREQUENCY TOLERANCE / STABILITY Blank=Bulk, TR=Tape and Reel Blank=±50ppm at 25°C, ±100ppm from 0°C to 70°C A=±50ppm at 25°C, ±100ppm from -20°C to 70°C B=±50ppm at 25°C, ±100ppm from -40°C to 85°C **FREQUENCY** C=±30ppm at 25°C, ±50ppm from 0°C to 70°C LOAD CAPACITANCE D=±30ppm at 25°C, ±50ppm from -20°C to 70°C Blank=18pF (Standard), S=Series E=±30ppm at 25°C, ±50ppm from -40°C to 85°C XX=XXpF (Custom) F=±15ppm at 25°C, ±30ppm from 0°C to 70°C G=±15ppm at 25°C, ±30ppm from -20°C to 70°C MODE OF OPERATION / CRYSTAL CUT J=±15ppm at 25°C, ±20ppm from 0°C to 70°C Blank=Fundamental / AT

B=Fundamental / BT

