ECLIPTEK® CORPORATION

Marketing Bulletin

DATE: Sunday, November 01, 1998

TO: Affected Customers

FROM: Marketing

RE: ECP1SM Series Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the ECP1SM series Ecliptek crystal effective Thursday, November 11, 1999.

In compliance with our End of Life (EOL) policy, this notice will serve as advanced notice of product termination. New orders will not be accepted after Sunday, November 01, 1998, with delivery to be conclude by Thursday, December 31, 1998.

The EC3SM series is a recommended alternate for the ECP1SM series. This may not be an exact cross, so it is highly recommended that the data sheet(s) of the recommended alternate are reviewed and samples tested to ensure conformance.

If there are any questions pertaining to this bulletin, please contact your Ecliptek sales representative. Thank you again for your cooperation.

Ecliptek Marketing

3545 CADILLAC AVENUE · COSTA MESA, CA 92626-1401 · (714) 433-1200 · Fax (714) 433-1234

STANDARD SPECIFICATIONS

Frequency Range:	3.579545MHz to 70.000MHz
Frequency Tolerance/Stability:	
Blank	±50ppm at 25°C, ±100ppm over 0°C to +70°C
A	±50ppm at 25°C, ±100ppm over -20°C to +70°C
B	±50ppm at 25°C, ±100ppm over -40°C to +85°C
C	±30ppm at 25°C, ±50ppm over 0°C to +70°C
D	±30ppm at 25°C, ±50ppm over -20°C to +70°C
E	±30ppm at 25°C, ±50ppm over -40°C to +85°C
Shunt Capacitance (Co)	7pF Maximum
Load Capacitance (CL)	
Blank	18pF Standard
XX	CL ≥ 12pF
S	Series
Mode of Operation	
Blank	Fundamental from 3.579545MHz to 30.000MHz
T	Third Overtone from 30.000MHz to 70.000MHz
Storage Temperature	-40°C to +85°C
Drive Level	1 mWatt Maximum
Aging @ 25°C	±5ppm/year Maximum
Insulation Resistance	500 Megaohms Minimum at 100Vdc

ORIGINAL IF IN RED

OBSOLETE

ENVIRONMENTAL & MECHANICAL

Shock:	Conditions and Criteria Listed in TQC41-883-007
Vibration:	Conditions and Criteria Listed in TQC41-883-008
Seal Integrity:	Conditions and Criteria Listed in TQC41-883-003
Solderability:	Conditions and Criteria Listed in TQC41-883-004 / 95% coverage
Marking Permenancy:	Conditions and Criteria Listed in TQC41-883-001

FREQUENCY VS. EQUIVALENT SERIES RESISTANCE (ESR Ohms Maximum)

Frequency Range	ESR	Frequency Range	ESR	Frequency Range	ESR
3.579 - 4.999	200	8.000 - 8.999	90	15.000 - 15.999	60
5.000 - 5.999	150	9.000 - 9.999	80	16.000 - 30.000	50
6.000 - 7.999	120	10.000 - 14.999	70	30.000 - 70.000 (3rd)	80

PART NUMBERING GUIDE

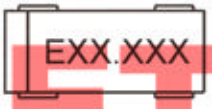
ECP1SM C T - 20 - 30.000M TR

- **Packaging Options**
  Blank = Bulk
  TR = Tape & Reel
  (CPA70-271-000)
- **Frequency**
- **Load Capacitance**
  Blank = 18pF (Standard)
  S = Series
  XX = XXpF (CL ≥ 12pF)
- **Mode of Operation**
  Blank = Fundamental
  T = Third Overtone
- **Frequency Tolerance/Stability**
  Blank or A - E (See Frequency Tolerance/Stability Specification Above for Code Definitions)

OBSOLETE

MARKING GUIDE

EXX.XXX
Frequency in MHz

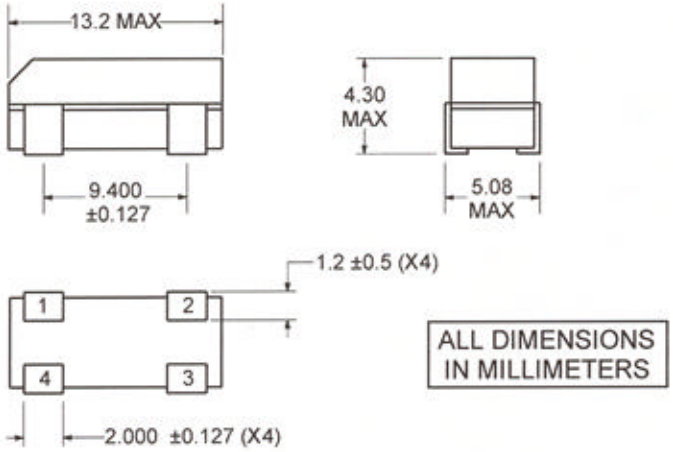


Note: Marking shall conform to conditions listed in TQC41-001-000.

PAD CONNECTIONS

PAD CONNECTIONS

#1: CRYSTAL
#2: SHORT TO PAD 3 (See Note 2)
#3: SHORT TO PAD 2 (See Note 2)
#4: CRYSTAL



ALL DIMENSIONS IN MILLIMETERS

Note 2: Pads 2 and 3 are mechanically connected but not electrically connected to the crystal can.

SPECIFICATION CONTROL DRAWING

ECLIPTEK® CORPORATION

Drawing Number
CCR43-001-000

Title
4.3mm x 13.2mm Plastic Surface Mount Crystal