

## Marketing Bulletin

**DATE:** Saturday, April 01, 2000  
**TO:** Affected Customers  
**FROM:** Marketing  
**RE:** ECP2SM Series Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the ECP2SM series Ecliptek crystal effective Saturday, April 01, 2000.

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 Saturday, April 01, 2000, with delivery to be conclude by Saturday, April 01, 2000.

The EC3SM series is a recommended alternate for the ECP2SM 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

## STANDARD SPECIFICATIONS

Frequency Range:	3.500MHz to 30.000MHz	
Frequency Tolerance/Stability:	<b>ORIGINAL IF IN RED</b>	
Blank		±50ppm at 25°C, ±100ppm over -10°C to +60°C
J		±30ppm at 25°C, ±50ppm over -10°C to +60°C
L		±30ppm at 25°C, ±30ppm over -10°C to +60°C
Shunt Capacitance (Co)	7pF Maximum	
Load Capacitance (CL)	18pF Standard CL ≥ 12pF Series	
Blank		
XX		
S	Series	
Mode of Operation	Fundamental from 3.500MHz to 30.000MHz	
Storage Temperature	-55°C to +125°C	
Drive Level	1 mWatt Maximum	
Aging @ 25°C	±5ppm/year Maximum	
Insulation Resistance	500 Megaohms Minimum at 100Vdc	

## 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 Permanency:	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
3.500 - 3.999	200	4.000 - 5.999	150	6.000 - 9.999	100
				10.000 - 30.000	50

## PART NUMBERING GUIDE

**ECP2SM J - 20 - 30.000M TR** — Packaging Options

Blank = Bulk  
TR = Tape & Reel  
(CPA70-351-000)

Frequency

Load Capacitance  
Blank = 18pF (Standard)  
S = Series  
XX = XXpF (CL ≥ 12pF)

Frequency Tolerance/Stability  
Blank, J or L (See Frequency Tolerance/Stability  
Specification Above for Code Definitions)

## MARKING GUIDE

**EXX.XXX**

Frequency in MHz



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

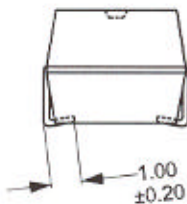
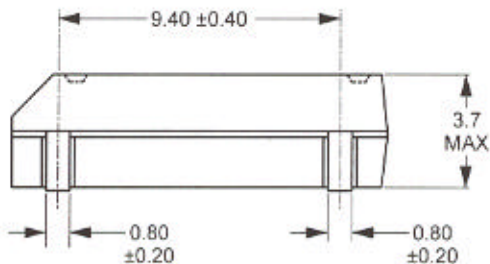
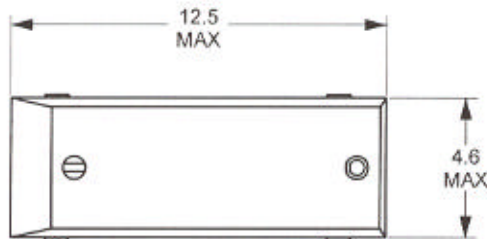
PAD CONNECTIONS

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.

OBSOLETE

## SPECIFICATION CONTROL DRAWING

	ECLIPTEK <sup>®</sup> CORPORATION	Drawing Number CCR47-001-000
	Title 3.7mm x 12.5mm Plastic Surface Mount Crystal	