ECLIPTEK® CORPORATION

Marketing Bulletin

DATE: July 19th, 2006

TO: All Sales Personnel

FROM: Mark Stoner

RE: Product Termination

To all concerned parties,

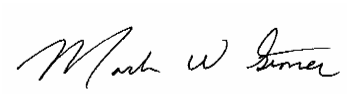
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective July 20th, 2006:

Series	Description	Recommended Replacement
EC7	UM-1 Crystal	E1M or E5M

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 31st, 2006, with delivery to conclude by December 31st 2006.

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

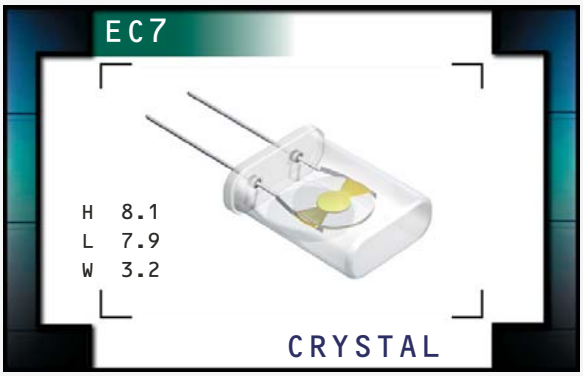
Best Regards,



Mark W. Stoner
Vice President of Marketing
Ecliptek Corporation

EC7 Series

- RoHS Compliant (Pb-Free)
- Inverted Mesa Crystal
- Fundamental mode frequencies to 212.5MHz
- UM-1 package
- AT cut
- Tight tolerance/stability
- Wide operating temperature range



NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range	44.737MHz to 212.500MHz
Frequency Tolerance / Stability	±50ppm / ±100ppm, ±30ppm/±50ppm
Over Operating Temperature Range	±15ppm / ±30ppm, or ±10ppm / ±30ppm
Operating Temperature Range	0°C to 70°C, -20°C to 70°C, or -40°C to 85°C
Aging (at 25°C)	±3ppm / year Maximum
Storage Temperature Range	-40°C to 85°C
Shunt Capacitance	5pF Maximum
Drive Level	100µWatts Maximum
Load Capacitance (C_L)	18pF (Standard), Custom $C_L \geq$ 10pF, or Series Resonant
Motional Capacitance (C_1)	3fF Min, 10fF Max ($F_0 \leq$ 100MHz), 3fF Min, 13fF Max ($F_0 >$ 100MHz)
Insulation Resistance	500 Megaohms Minimum at $100V_{DC}$

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

Frequency Range	ESR (Ω)	Mode / Cut	Frequency Range	ESR (Ω)	Mode / Cut
44.737MHz to 50.000MHz	25 Max	Fundamental / AT	100.001MHz to 160.000MHz	35 Max	Fundamental / AT
50.001MHz to 100.000MHz	30 Max	Fundamental / AT	160.001MHz to 212.500MHz	40 Max	Fundamental / AT

MANUFACTURER	CATEGORY	SERIES	PACKAGE	CLASS	REV. DATE
ECLIPTEK CORP.	CRYSTAL	EC7	UM-1	CR36	03/06

PART NUMBERING GUIDE

EC7 A - 20 - 35.000M

FREQUENCY TOLERANCE / STABILITY
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
C=±30ppm at 25°C, ±50ppm from 0°C to 70°C
D=±30ppm at 25°C, ±50ppm from -20°C to 70°C
E=±30ppm at 25°C, ±50ppm from -40°C to 85°C
F=±15ppm at 25°C, ±30ppm from 0°C to 70°C
G=±15ppm at 25°C, ±30ppm from -20°C to 70°C
H=±15ppm at 25°C, ±30ppm from -40°C to 85°C
J=±10ppm at 25°C, ±30ppm from 0°C to 70°C
K=±10ppm at 25°C, ±30ppm from -20°C to 70°C
L=±10ppm at 25°C, ±30ppm from -40°C to 85°C

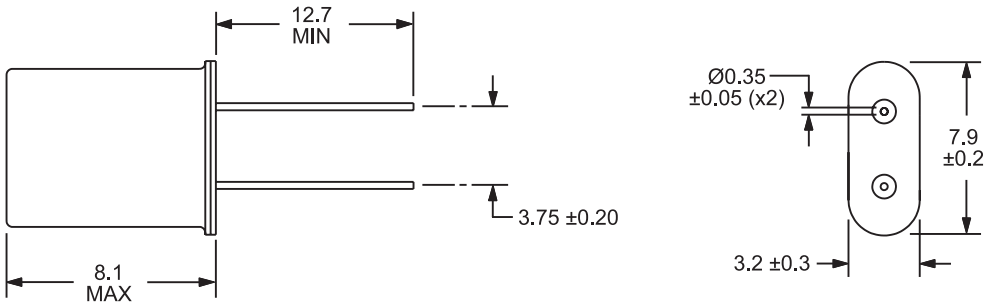
FREQUENCY

LOAD CAPACITANCE
Blank=18pF (Standard)
S=Series, XX=XXpF (Custom)

NOTES

OBSOLETE

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS



ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Seal Integrity	Bubble test in Perfluorocarbon at +125°C ±5°C for 60 seconds minimum.
Solderability	Sn63 Solder dip at +230°C ±5°C for 5 seconds/95% coverage.
Marking Permanency	10 Strokes with brush after 1 minute soak in solvent, 3 times.
Shock	Random drop on hard wooden plate 3 times from a height of 50cm.
Vibration	Frequency with an amplitude of 1.5mm sweeping between 10Hz to 55Hz within 1 minute (approximately) for 2 hours minimum on each axis (X,Y and Z) for a total of 6 hours.

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: XX.XXXM
Frequency in MHz (5 Digits Maximum + Decimal)

Line 3: XX
Ecliptek Manufacturing Identifier

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ECLIPTEK CORP.	CRYSTAL	EC7	UM-1	CR36	03/06