

Marketing Bulletin

DATE: May 1st, 2008

TO: All Sales Personnel

FROM: Isaac Gonzalez

RE: Product Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective May 1st, 2008:

Series Description Recommended Replacement

EC1SM Resistance Welded Short HC-49/UP SMD Crystal E1S Series EC2SM Resistance Welded HC-49/UP SMD Crystal E2S Series

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 1st, 2009, with delivery to conclude by December 31st, 2009.

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

Best Regards,

Isaac Gonzalez

Configuration Manager Ecliptek Corporation

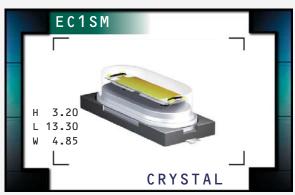
EC1SM Series

- HC-49/UP short package
- AT or BT cut available
- Resistance weld seal

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- Tight tolerance/stability
- Tape and reel available





OBSOLETE

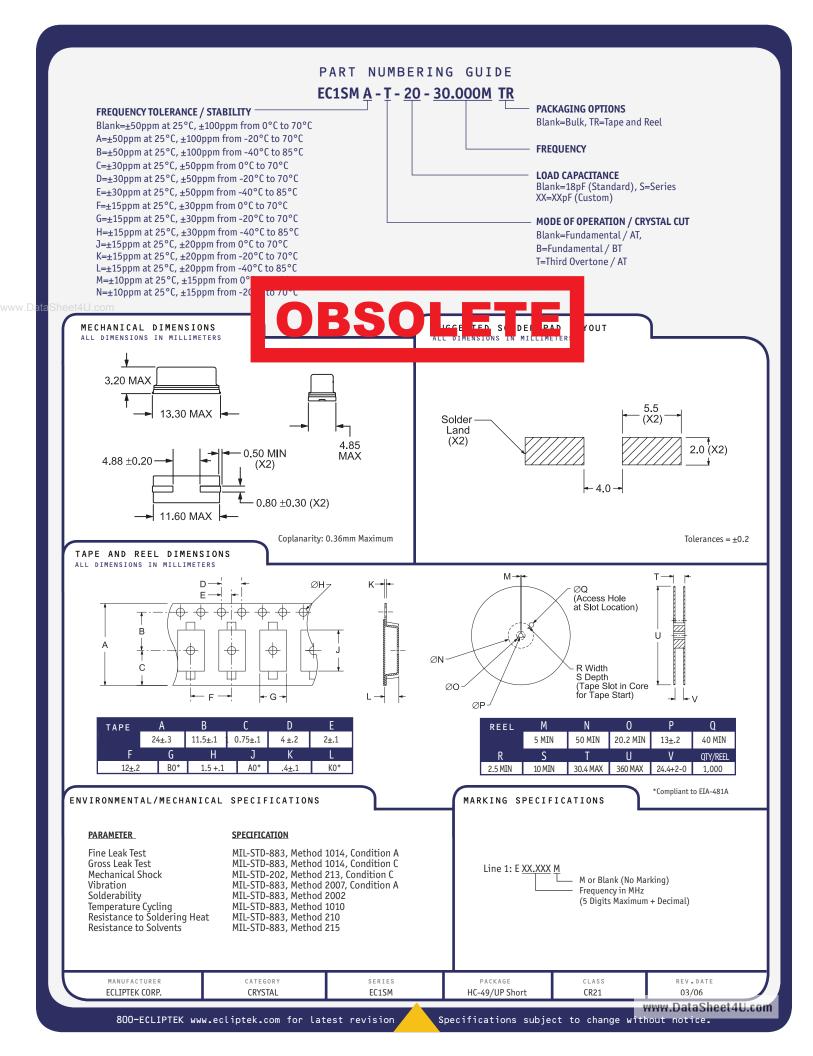
ELECTRICAL SPECIFICATIONS

Frequency Range	3.579545MHz to 50.000MHz			
Frequency Tolerance / Stability	± 50 ppm / ± 100 ppm (Standard), ± 30 ppm / ± 50 ppm (AT cut only), ± 15 ppm / ± 30 ppm (AT cut only)			
Over Operating Temperature Range	± 15 ppm / ± 20 ppm (AT cut only), or ± 10 ppm / ± 15 ppm (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 _{DC}			
Drive Level	1 mWatt Maximum			
Load Capacitance (C _L)	18pF (Standard), Custom C _L ≥10pF, 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	15.000MHz to 15.999MHz	60 Max	Fundamental / AT
5.000MHz to 5.999MHz	150 Max	Fundamental / AT	16.000MHz to 23.999MHz	50 Max	Fundamental / AT
6.000MHz to 7.999MHz	120 Max	Fundamental / AT	24.000MHz to 30.000MHz	40 Max	Fundamental / AT
8.000MHz to 8.999MHz	90 Max	Fundamental / AT	24.000MHz to 40.000MHz	40 Max	Fundamental / BT
9.000MHz to 9.999MHz	80 Max	Fundamental / AT	28.6363MHz to 29.999MHz	150 Max	Third Overtone / AT
10.000MHz to 14.999MHz	70 Max	Fundamental / AT	30.000MHz to 50.000MHz	100 Max	Third Overtone / AT

MANUFACTURER CATEGORY SERIES PACKAGE CLASS REV.DATE
ECLIPTEK CORP. CRYSTAL EC1SM HC-49/UP Short CR21 03/06



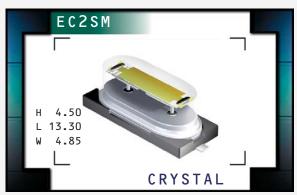
EC2SM Series

- HC-49/UP package
- AT or BT cut available
- Resistance weld seal

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- Tight tolerance/stability
- Tape and reel available





OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range	3.579545MHz to 50.000MHz			
Frequency Tolerance / Stability	±50ppm / ±100ppm (Standard), ±30ppm / ±50ppm (AT cut only), ±15ppm / ±30ppm (AT cut only)			
Over Operating Temperature Range	± 15 ppm / ± 20 ppm (AT cut only), or ± 10 ppm / ± 15 ppm (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			
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10.000MHz to 14.999MHz	70 Max	Fundamental / AT	30.000MHz to 50.000MHz	100 Max	Third Overtone / AT

MANUFACTURER CATEGORY SERIES PACKAGE CLASS REV.DATE
ECLIPTEK CORP. CRYSTAL EC2SM HC-49/UP CRO3 03/06

