

Marketing Bulletin

DATE: January 15th, 2007
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 January 15th, 2008:

Series	Description	Recommended Replacement
ECCM5B	3.5x6.0mm Ceramic 2Pad SMD Crystal	ECCM5A

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 January 1st, 2009, with delivery to conclude by April 1st, 2009.

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

Best Regards,



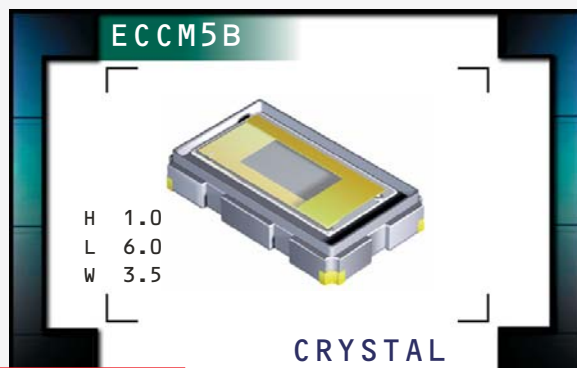
Isaac Gonzalez
Configuration Manager
Ecliptek Corporation

ECCM5B Series

- RoHS Compliant (Pb-Free)
- Miniature two pad ceramic surface mount package
- AT cut
- Tight tolerance/stability
- Frequencies to 32.000MHz available
- Tape and reel available



ECLIPTEK
CORPORATION



NOTES

OBSOLETE

TABLE 1: PART NUMBERING CODES				
Operating Temperature Range	X Denotes Availability	Frequency Stability		
		±20ppm	±30ppm	±50ppm
	Code	D	E	F
-10°C to +60°C	A	X	X	X
-20°C to +60°C	B	X	X	X
0°C to +70°C	C	X	X	X
-10°C to +70°C	D	X	X	X
-20°C to +70°C	E	X	X	X

ELECTRICAL SPECIFICATIONS

Frequency Range 11.0592MHz to 32.000MHz

Frequency Tolerance ±30ppm, or ±50ppm

Frequency Stability Per Table 1

Operating Temperature Range Per Table 1

Aging (at 25°C) ±2ppm / year Maximum

Storage Temperature Range -40°C to 85°C

Shunt Capacitance 5pF Maximum

Insulation Resistance 500 Megaohms Minimum at 100V_{DC}

Drive Level 100 µWatts Maximum

Load Capacitance (C_L) 18pF (Standard), C_L ≥ 10pF, or Series Resonant

Spurious Response -3dB Minimum; F₀ to F₀ +5000ppm

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

Frequency Range	ESR (Ω)	Mode / Cut
11.0592MHz to 24.000MHz	50 Maximum	Fundamental / AT
24.001MHz to 32.000MHz	40 Maximum	Fundamental / AT

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
CRYSTAL

SERIES
ECCM5B

PACKAGE
CERAMIC

CLASS
CR39

REV. DATE
09/03

PART NUMBERING GUIDE

ECCM5B 5 D C - 20 - 32.000M TR

FREQUENCY TOLERANCE (AT 25°C)
5=±30ppm, 6=±50ppm

FREQUENCY STABILITY
D=±20ppm, E=±30ppm, F=±50ppm

OPERATING TEMPERATURE RANGE
Per Table 1

PACKAGING OPTIONS
Blank=Bulk, TR=Tape and Reel

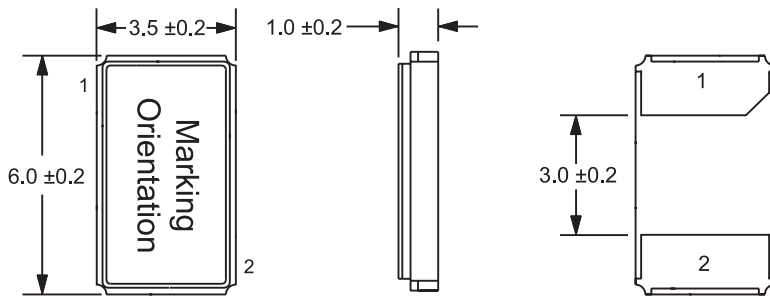
FREQUENCY

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

OBSOLETE

MECHANICAL DIMENSIONS

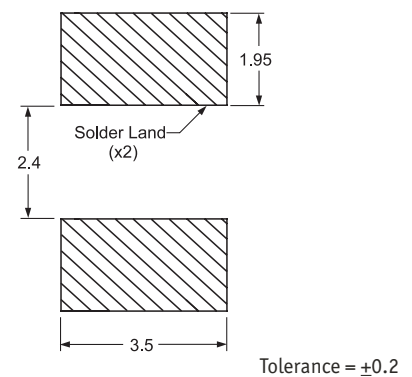
ALL DIMENSIONS IN MILLIMETERS



Pad 1: Input/Output
Pad 2: Input/Output

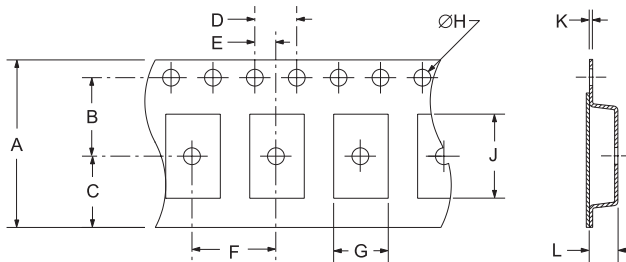
SUGGESTED SOLDER PAD LAYOUT

ALL DIMENSIONS IN MILLIMETERS

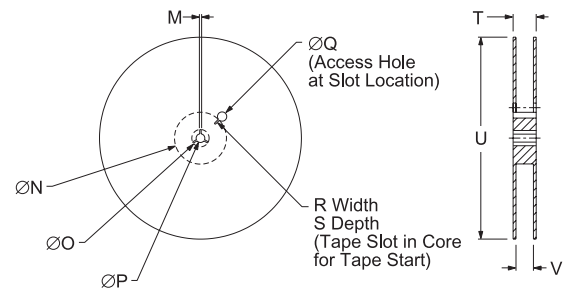


TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



TAPE	A	B	C	D	E
	16±.3	7.5±.1	6.75±.2	4 ±.1	2±.05
F	G	H	J	K	L
8±.1	3.9±.1	1.5±.1	6.4±.1	.3 ±.05	1.3±.1



REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13±.2	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	22.4 MAX	360 MAX	16.4+2-0	1,000

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

PARAMETER

Fine Leak Test
Gross Leak Test
Mechanical Shock
Vibration
Lead Integrity
Solderability
Temperature Cycling
Resistance to Soldering Heat
Resistance to Solvents

SPECIFICATION

MIL-STD-883, Method 1014, Condition A
MIL-STD-883, Method 1014, Condition C
MIL-STD-202, Method 213, Condition C
MIL-STD-883, Method 2007, Condition A
MIL-STD-883, Method 2004
MIL-STD-883, Method 2002
MIL-STD-883, Method 1010
MIL-STD-202, Method 210
MIL-STD-202, Method 215

MARKING SPECIFICATIONS

*Compliant to EIA-481A

Line 1: E XX.XX
Frequency in MHz
(4 Digits Maximum + Decimal)

Line 2: XX YY ZZ
Week of Year
Last Digit of Year
Ecliptek Manufacturing Identifier

MANUFACTURER
ECLIPTEK CORP.

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CRYSTAL

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ECCM5B

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