

PART NUMBERING GUIDE

ECCM8 A - 16 - 32.00M TR

FREQUENCY TOLERANCE/STABILITY

A=±50ppm at 25°C, ±100ppm over 0°C to 70°C
 B=±50ppm at 25°C, ±100ppm over -20°C to 70°C
 C=±50ppm at 25°C, ±100ppm over -40°C to 85°C
 D=±30ppm at 25°C, ±50ppm over 0°C to 70°C
 E=±30ppm at 25°C, ±50ppm over -20°C to 70°C
 F=±30ppm at 25°C, ±50ppm over -40°C to 85°C
 G=±15ppm at 25°C, ±30ppm over 0°C to 70°C
 H=±15ppm at 25°C, ±30ppm over -20°C to 70°C
 J=±15ppm at 25°C, ±30ppm over -40°C to 85°C
 K=±15ppm at 25°C, ±20ppm over 0°C to 70°C
 L=±15ppm at 25°C, ±20ppm over -20°C to 70°C
 M=±15ppm at 25°C, ±20ppm over -40°C to 85°C
 N=±10ppm at 25°C, ±15ppm over 0°C to 70°C
 P=±10ppm at 25°C, ±15ppm over -20°C to 70°C

PACKAGING OPTIONS

Blank=Bulk, TR=Tape and Reel

FREQUENCY

LOAD CAPACITANCE

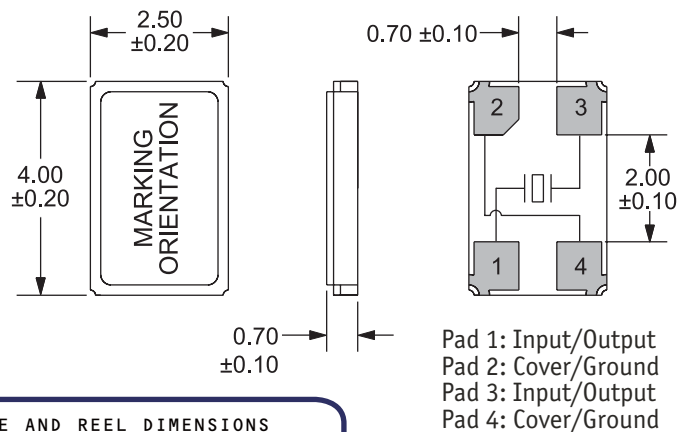
10=10pF
 12=12pF
 16=16PF

MODE OF OPERATION

A=Fundamental

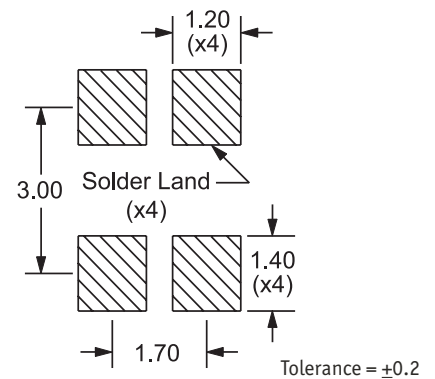
MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



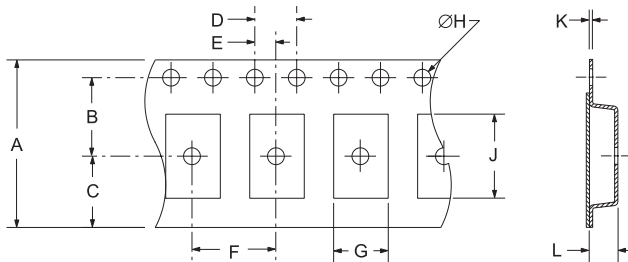
SUGGESTED SOLDER PAD LAYOUT

ALL DIMENSIONS IN MILLIMETERS

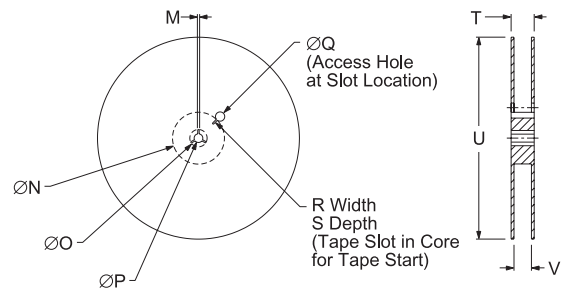


TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



TAPE	A	B	C	D	E	
	12±.3	5.5±.1	4.75±.1	4±.1	2±.1	
F	G	H	J	K	L	
	4±.1	2.9±.1	1.5±.1	4.4±.1	.3±.05	1±.1



REEL	M	N	O	P	Q	
	1.5 MIN	50 MIN	20.2 MIN	13±.5	40 MIN	
R	S	T	U	V	QTY/REEL	
	2.5 MIN	10 MIN	18.4 MAX	180 MAX	12,4+2-0	1,000

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

PARAMETER

Fine Leak Test
 Gross Leak Test
 Mechanical Shock

High Temperature Storage
 Low Temperature Storage
 Moisture Resistance
 Solder Thermal Stability
 Thermal Shock
 Vibration

SPECIFICATION

JIS C 6701 10.6 Leak Rate: 2.1×10^{-9} Pa-m³/6 Maximum.
 JIS C 6701 10.6 Leak Rate: 1.27×10^{-5} Pa-m³/8 Maximum.
 Random drop on rigid hard wood surface 3 times at height of 75cm.
 JIS C 7021 B-10: at 85°C for 1000 hours.
 JIS C 7021 B-12: at -40°C for 1000 hours.
 JIS C 7021 B-11: at 85°C and 90% humidity for 1000 hours.
 Recommended Solder Reflow profile 1 time.
 100 cycles over -40°C to +85°C for 30 minutes.
 JIS C 6701 10.26: at 10Hz to 55Hz, 1.5mm amplitude for 1 minute. Test Time: X, Y, Z each direction for 2 hours.

MARKING SPECIFICATIONS

*Compliant to EIA-481A

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

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

MANUFACTURER
 ECLIPTEK CORP.

CATEGORY
 CRYSTAL

SERIES
 ECCM8

PACKAGE
 CERAMIC

CLASS
 CR46

REV. DATE
 10/06