

ECN/PCN No.: 3816

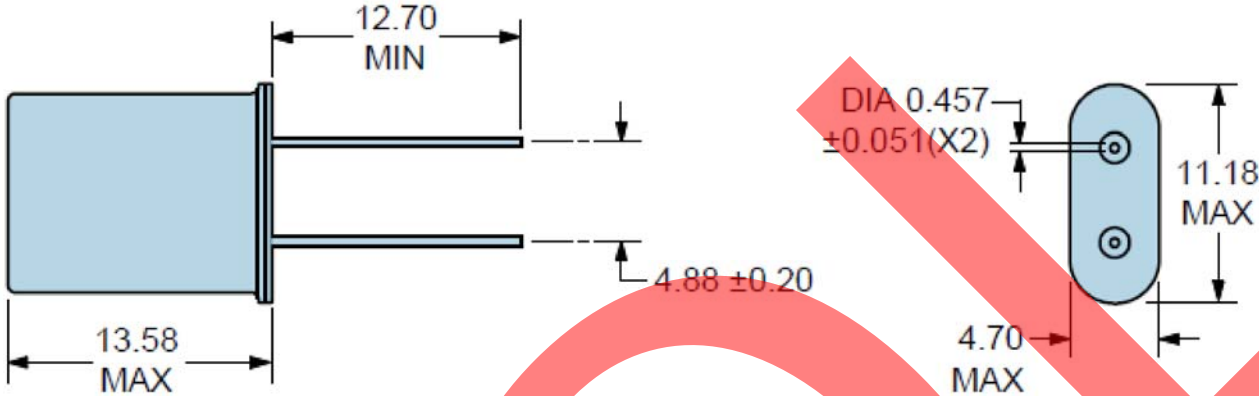
For Manufacturer			
Product Description: HC-49/U Crystal	Abracon Part Number / Part Series: ECX-6617-24.576M	<input type="checkbox"/> Documentation only <input type="checkbox"/> ECN <input checked="" type="checkbox"/> EOL	<input type="checkbox"/> Series <input checked="" type="checkbox"/> Part Number
Affected Revision: 5/23/2018	New Revision: EOL	Application:	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
Prior to Change: ECX-6617-24.576M (See page 2)			
After Change: EOL			
Cause/Reason for Change: Discontinuation of this older product package type and associated manufacturing capability.			
Change Plan			
Effective Date: 5/05/2021	Additional Remarks:		
Change Declaration:			
Issued Date: 5/05/2021	Issued By: <i>Stephanie Lopez</i>	Issued Department: Engineering	
Approval: <i>Thomas Culhane</i> Engineering Director	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): <i>None</i>	Alternate Part Number / Part Series: <i>None</i>		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			

STANDARD SPECIFICATIONS

Nominal Frequency	24.576MHz
Frequency Tolerance	±10ppm Maximum (at 25°C)
Frequency Stability	±50ppm Maximum (over 0°C to +70°C)
Aging at 25°C	±5ppm/year Maximum
Operating Temperature Range	0°C to +70°C
Load Capacitance	18pF Parallel Resonant
Shunt Capacitance (C0)	7pF Maximum
Equivalent Series Resistance	60 Ohms Maximum
Mode of Operation	Third Overtone
Drive Level	1mWatt Maximum, 100µWatts Correlation
Crystal Cut	AT-Cut
Storage Temperature Range	-40°C to +85°C

COMMENTS & SPECIAL NOTES

HC-49/U



Marking

Line 1: **ECX6617**
 Line 2: **24.576M**
 Line 3: **XXXXX** (Where XXXXX = Ecliptek Manufacturing Code)

NOTE: Marking shall conform to conditions listed in TQC41-001-000

ECX-6617 -24.576M -I2 TR

Series
Ecliptek Custom Crystal

Nominal Frequency

Packaging Options

- Blank = Bulk
- A = Tray
- TR = Tape & Reel
- TR1 = Tape & Reel (Variant 1)
- TR2 = Tape & Reel (Variant 2)
- TR3 = Tape & Reel (Variant 3)

Value Added Options

- CB = Cut Leads to 2.540 ±0.500 (0.100" ±0.020")
- CC = Cut Leads to 3.175 ±0.500 (0.125" ±0.020")
- CD = Cut Leads to 3.810 ±0.500 (0.150" ±0.020")
- CE = Cut Leads to 4.445 ±0.500 (0.175" ±0.020")
- CF = Cut Leads to 5.080 ±0.500 (0.200" ±0.020")
- CG = Cut Leads to 6.350 ±0.500 (0.250" ±0.020")
- CH = Cut Leads to 6.985 ±0.500 (0.275" ±0.020")
- CJ = Cut Leads to 7.620 ±0.500 (0.300" ±0.020")
- CL = Cut Leads to 8.255 ±0.500 (0.325" ±0.020")
- CN = Cut Leads to 8.890 ±0.500 (0.350" ±0.020")
- CP = Cut Leads to 9.525 ±0.500 (0.375" ±0.020")
- CQ = Cut Leads to 10.160 ±0.500 (0.400" ±0.020")
- D = Add Double Sided Tape
- G = Gull Wing
- I2 = Mylar Insulator Tab
- L = Third Lead
- V = Vinyl Sleeving

SPECIFICATION CONTROL DRAWING

	Drawing Number: CCX00-006-617	
	Title: Ecliptek Generic (ECLMF) ECX-6617 Series	
Effectivity Date: 5/23/2018	PAGE 1 OF 2	
Signature approved copy on file at Ecliptek. UNCONTROLLED IF PRINTED OR DISTRIBUTED		

ENVIRONMENTAL & MECHANICAL


ESD Susceptibility	MIL-STD-883, Method 3015, Class 1, HBM: 1500V	Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Flammability	UL94-V0	Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Lead Integrity	MIL-STD-883, Method 2004	Mechanical Shock	MIL-STD-202, Method 213, Condition C
Moisture Resistance	MIL-STD-883, Method 1004	Moisture Sensitivity	J-STD-020, MSL1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K	Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003	Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A		

RoHS Compliance Information

RoHS Compliant	Pb-Free	Date of RoHS Compliance
Yes	Yes	5/23/2018

Note: Please refer to TEN02-030-000 more information regarding RoHS compliance.

SPECIFICATION CONTROL DRAWING

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