

MMC-463F-32.768KHZ-T Custom Crystal Spec



- Plastic SMD Crystal
- 32.768 kHz
- Tape and Reel Package
- RoHS Compliant



ELECTRICAL SPECIFICATIONS:

Frequency	32.768 kHz
Tolerance at +25°C	±20 ppm
Stability	Parabolic Coefficient -0.04 max ppm/(Δ°C) ² max
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C
Equivalent Series Resistance	50 kΩ max
Load Capacitance	12.5 pF ±0.5 pF
Shunt Capacitance	0.85 pF typ
Motional Capacitance	2.0 fF typ
Drive Level	1 μW max
Aging (first year)	±3 ppm max at +25°C ±3°C
Mode of Operation	Tuning Fork, X-Cut
Insulation Resistance	500 MΩ min at 100 VDC

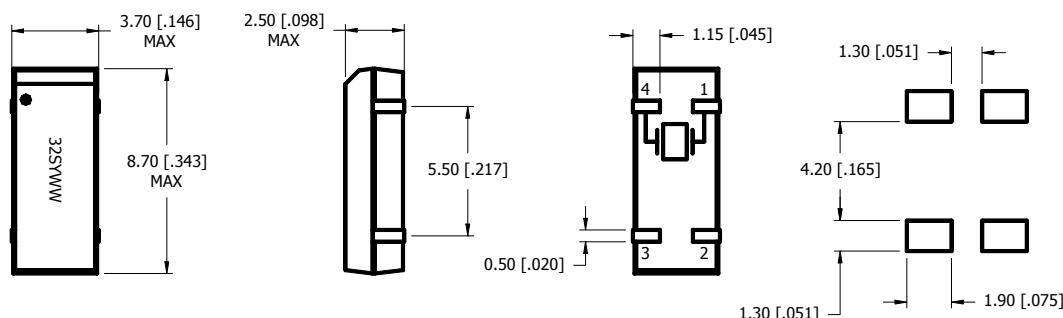
ENVIRONMENTAL / MECHANICAL:

Shock	MIL-STD-883, Meth 2002, Cond B
Solderability	MIL-STD-883, Meth 2003
Vibration	MIL-STD-883, Meth 2007, Cond A
Moisture Sensitivity Level	Level 2 per JEDEC J-STD-020
Reflow Solderability	260°C, 10 secs max

MARKING:

Line 1 = 32SYWW
32 = 32.768kHz
S = Manufacture Identifier
Y = First Digit of Year of Manufacture
WW = Week Code

MECHANICAL DETAILS:



DIMENSION IN BRACKETS ARE IN INCHES

SUGGESTED
LAND PATTERN

PIN CONNECTIONS	
PIN 1	CRYSTAL
PIN 2	GROUND
PIN 3	GROUND
PIN 4	CRYSTAL

QUALITY SYSTEM
CERTIFIED
= ISO 9001 =

MMD Monitor / Quartztek

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Rev: 08/27/16_D

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Customer Approval:

Date:

In the event of conflict, the requirements of this specification shall govern.

Revision:

08/27/16 D

Revisions only with customer approval

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Release: AWB

Date:

08/27/16