

ECS-.327-CDX-1293 SMD CRYSTAL

The industry standard package size 3.2 x 1.5 mm
ECS-.327-CDX-1293 SMD Tuning Fork Crystal highlights a tight
Tolerance of ± 5 ppm. Guaranteed maximum ESR of 70 k Ω .

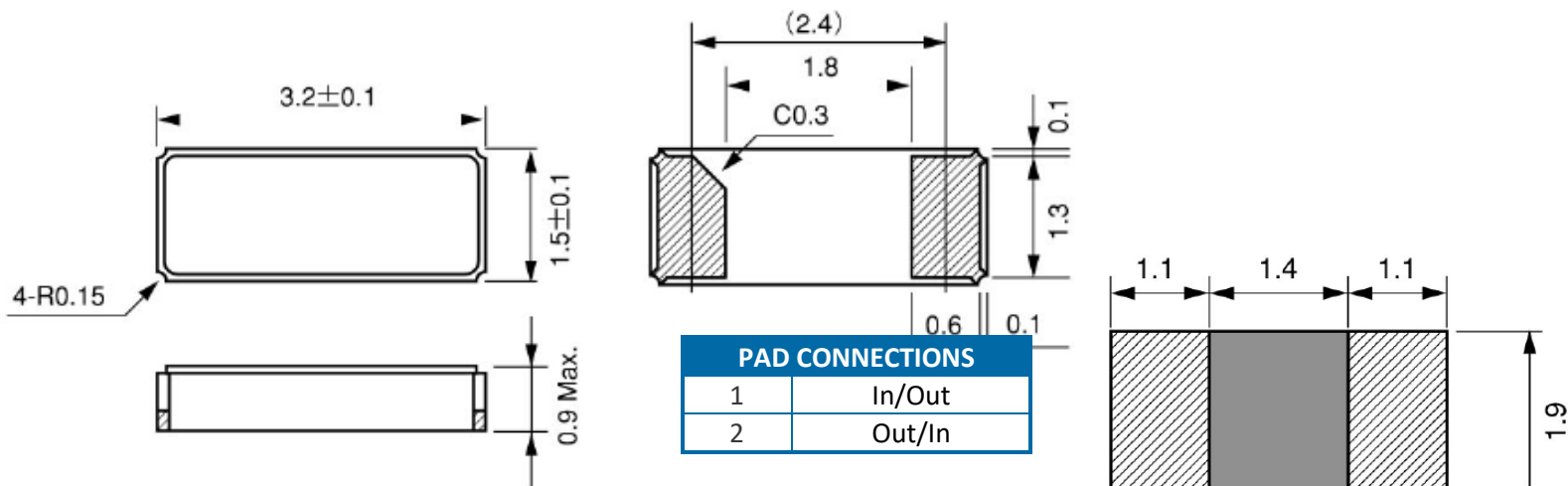
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- Low Profile
- 3.2 x 1.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant

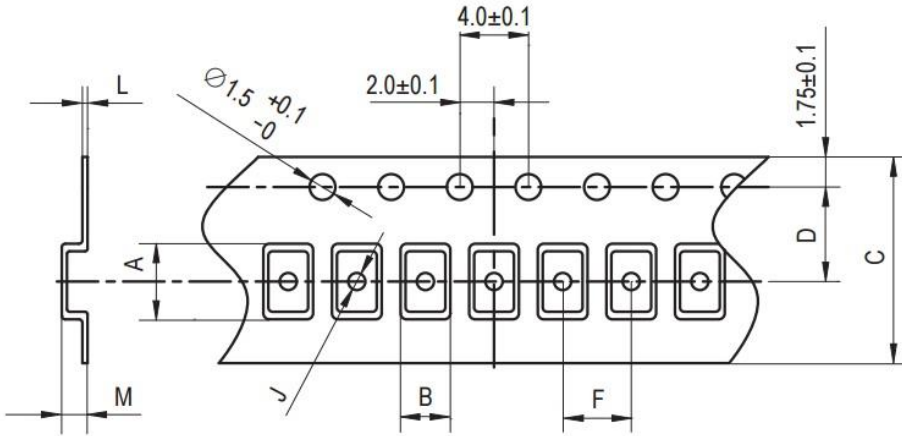
| PARAMETERS | CONDITIONS | ECS-.327-CDX-1293 | | | UNITS |
|------------------------------|--------------------|-------------------|--------|---------|---------------------|
| | | MIN | TYP | MAX | |
| Frequency | | | 32.768 | | KHz |
| Frequency Tolerance | @ +25°C | | | ± 5 | ppm |
| Load Capacitance | Specify in P/N | | 12.5 | | pF |
| Drive Level | DL | | 0.1 | 1.0 | μ W |
| Equivalent Series Resistance | R1 | | | 70K | Ω |
| Turnover Temperature | | +20 | +25 | +30 | °C |
| Temperature Coefficient | | -0.028 | -0.034 | -0.040 | ppm/°C ² |
| Shunt Capacitance | Co | | 1.05 | | pF |
| Aging (First Year) | @ +25°C ± 3 °C | | | ± 3 | ppm |
| Operating Temperature | T _{opr} | -40 | | +85 | °C |
| Storage Temperature | T _{stg} | -55 | | +125 | °C |
| Insulation Resistance | @ 100V DC | 500M | | | Ω |

DIMENSIONS (mm)



Part Number: ECS-.327-CDX-1293

POCKET TAPE DIMENSIONS (mm)



| A | B | C | D | F | J | L | M | Reel Dia. | Qty/Reel |
|-----|-----|------|-----|-----|-----|-----|-----|-----------|----------|
| 3.4 | 1.7 | 12.0 | 5.5 | 4.0 | 1.0 | 0.3 | 1.2 | 180 | 3000pcs |

| SOLDER PROFILE | |
|---|--|
| Peak solder Temp +260°C Max 10 sec Max. | |
| 2 Cycles Max. | |
| MSL 1, Lead Finish Au | |

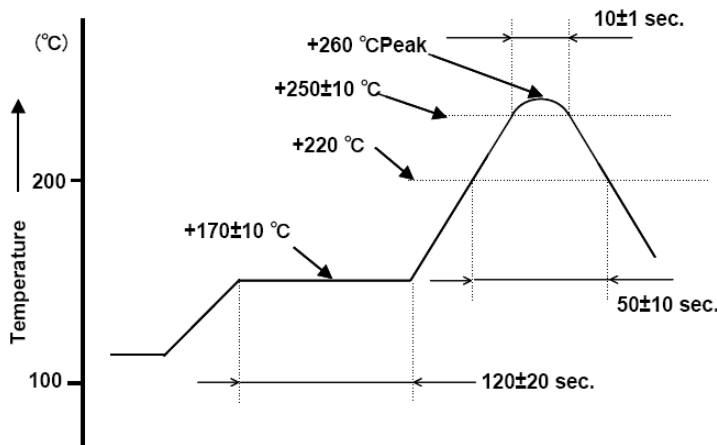


Figure 1) Suggested Reflow Profile