

SMD QUARTZ CRYSTAL SPECIFICATION

SERIES „SMD03025/4 26.000 MHZ 10/10/-20+70/8PF“

FEATURES

- + Cheapest available miniature SMD-Crystal in ceramic package
- + High reliability for low cost
- + Optimized low ESR resonator design for fast oscillation start-up
- + Our top quality promise / depth of production:
 - Only use of crystal blanks from our in-house production
 - Excellent product features guaranteed by multiple 100% tests
 - 100% quality monitoring from crystal raw material to the end product



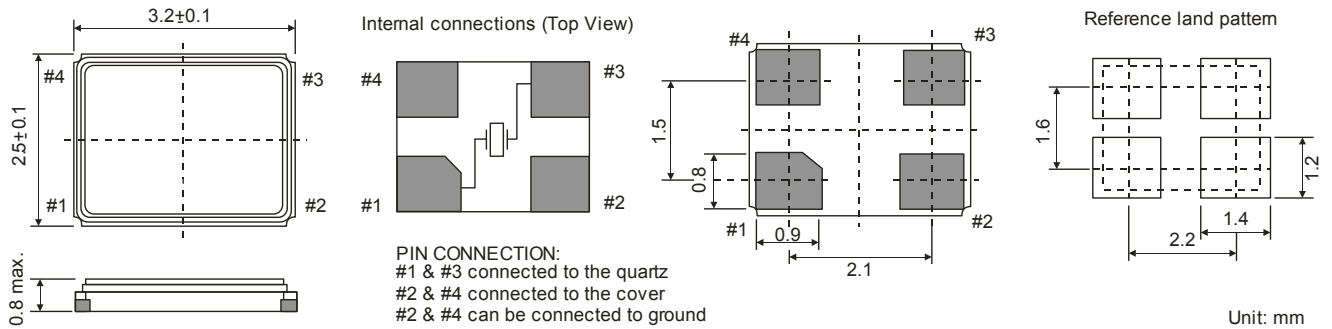
GENERAL DATA

| PARAMETERS | PRODUCT FEATURES AND CONDITIONS |
|-------------------------------------|--|
| SMD-CRYSTAL SERIES | SMD03025/4 |
| PACKAGE HEIGHT | 0.8 mm max. |
| FREQUENCY | 26.000 MHz |
| MODE OF VIBRATION | AT-FUNDAMENTAL |
| EQUIVALENT SERIES RESISTANCE | 30 Ω max. |
| FREQUENCY TOLERANCES AT 25°C | ±10 ppm |
| LOAD CAPACITANCE (CL) | 8 pF |
| WORKING TEMPERATURE RANGE | -20/+70°C |
| TEMPERATURE STABILITY | ±10 ppm over -20/+70°C (referred to +25°C) |
| SHUNT CAPACITANCE (C ₀) | 2 pF max. |
| AGING | ±2 ppm after first year, ±10 ppm max. after 10 years |
| DRIVE LEVEL | 100 μW typ. / 200 μW max. |
| INSULATION RESISTANCE | >500 MΩ DC/100V ±15V |
| STORAGE TEMPERATURE | -55/+125°C |
| DELIVERY FORM | Tape & Reel (3.000 pcs) |
| RoHS | Lead free and RoHS compliant |
| SOLDERING CONDITION | See reflow solder profile |
| MARKING | Line 1 = P26M8 Line 2 = xxxx (xxxx = date code) |
| ORDERING CODE | SMD03025/4 26.000 MHz 10/10/-20+70/8pF |
| CUSTOMER P/N | |
| PETERMANN-TECHNIK P/N | QEU9010944 |

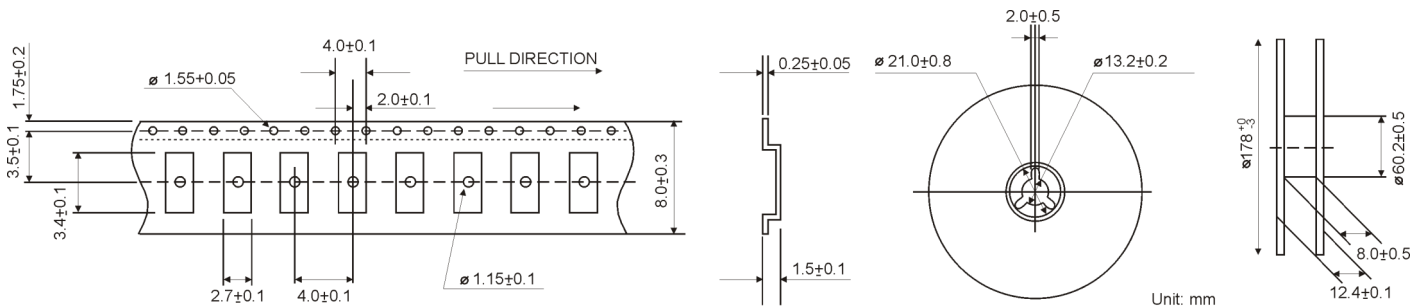
Note:

1. The reference temperature for all specified values and tests is +25°C.
2. Do not use cleaning baths operating at ultrasonic frequencies or ultrasonic welding processes.

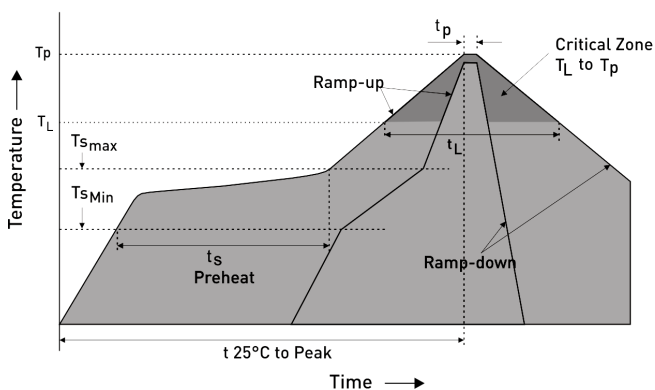
DIMENSIONS



REEL SPECIFICATION



REFLOW SOLDER PROFILE



| IPC/JEDEC Standard | IPC/JEDEC J-STD-020 |
|-------------------------------------|---------------------|
| Moisture Sensitivity Level | Level 1 |
| TS MAX to TL (Ramp-up Rate) | 3°C/second Maximum |
| Preheat | |
| - Temperature Minimum (TS MIN) | 150°C |
| - Temperature Typical (TS TYP) | 175°C |
| - Temperature Maximum (TS MAX) | 200°C |
| - Time (tS) | 60 - 180 Seconds |
| Ramp-up Rate (TL to TP) | 3°C/second Maximum |
| Time Maintained Above: | |
| - Temperature (TL) | 217°C |
| - Time (TL) | 60 - 150 Seconds |
| Peak Temperature (TP) | 260°C Maximum |
| Target Peak Temperature (TP Target) | 255°C |
| Time within 5°C of actual peak (tP) | 20 - 40 seconds |
| Max. Number of Reflow Cycles | 2 |
| Ramp-down Rate | 6°C/second Maximum |
| Time 25°C to Peak Temperature (t) | 8 minutes Maximum |



PREMIUM QUALITY BY PETERMANN-TECHNIK



OUR COMPANY IS CERTIFIED ACCORDING TO ISO 9001:2015 AND 14001:2015

THIS IS FOR YOU TO ENSURE THAT THE PRINCIPLES OF QUALITY MANAGEMENT ARE FULLY IMPLEMENTED IN OUR QUALITY MANAGEMENT SYSTEM AND QUALITY CONTROL METHODS ALSO DOMINATE OUR QUALITY STANDARDS.