

PETERMANN-TECHNIK GmbH Lechwiesenstr. 13 • D-86899 • Landsberg am Lech Tel: +49/8191/305395 • Fax: +49/8191/305397 info@petermann-technik.com • www.petermann-technik.com



SMD QUARTZ CRYSTAL SPECIFICATION

SERIES "SMD03025/4 8.000 MHZ 10/20/-40+85/12PF/500R/500µW"

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

4 K. MENTAL
-
IENTAL
IENTAL
er -40/+85°C (referred to +25°C)
r first year, ±10 ppm max. after 10 years
/ 500 μW max.
/100V ±15V
(3.000 pcs)
nd RoHS compliant
solder profile
VX1 x (xxxx = date code)
4 8.000 MHz 10/20/-40+85/12pF/500R/500µW
6

Note:

1. The reference temperature for all specified values and tests is +25°C.

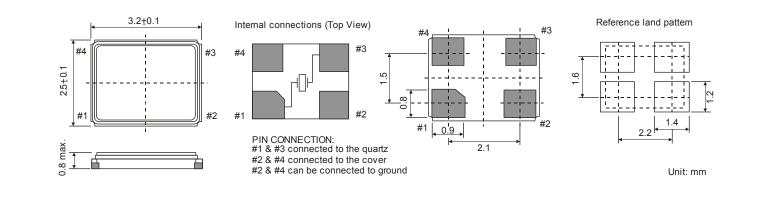
2. Do not use cleaning baths operating at ultrasonic frequencies or ultrasonic welding processes.



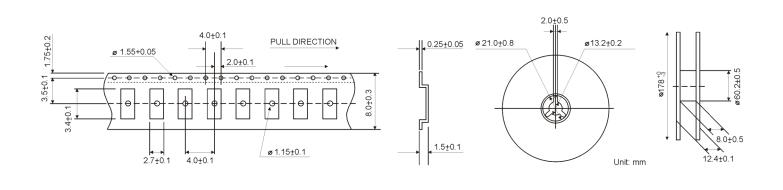
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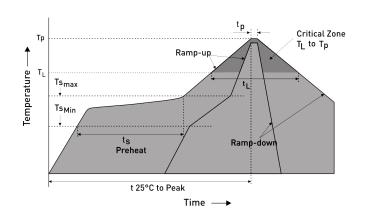
DIMENSIONS



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



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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.