



SMD QUARTZ CRYSTAL SPECIFICATION

SERIES "SMD02016/4 32.000 MHZ 10/15/-40+85/10PF/40R"

FEATURES

- + New ultra compact top seller SMD-Crystal in ceramic package
- + High reliability for low cost
- + 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

SMD02016/4 0.55 mm max.
0.55 mm max.
32.000 MHz
AT-FUNDAMENTAL
40 Ω max.
±10 ppm
10 pF
-40/+85°C
$\pm 15 \text{ ppm over } -40/+85^{\circ}\text{C}$ (referred to +25°C)
1.5 pF max.
±10 ppm max. after 10 years
100 μW typ. / 200 μW max.
>500 MΩ DC/100V ±15V
-55/+125°C
0.3 ppb/G typ. / 1.0 ppb/G max.
Tape & Reel (3.000 pcs)
Lead free and RoHS compliant
See reflow solder profile
Line 1 = P32X10 Line 2 = xxxx (xxxx = date code)
SMD02016/4 32.000 MHz 10/15/-40+85/10pF/40R
QEU9310090

Note:

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

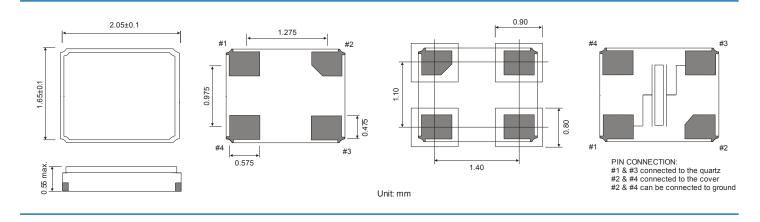
2. Do not use cleaning baths operating at ultrasonic frequencies or ultrasonic welding processes.



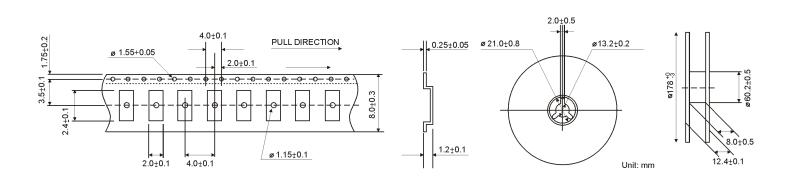
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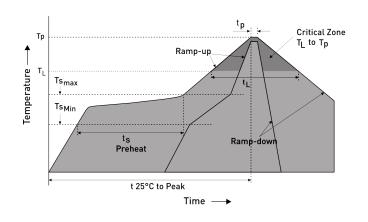
DIMENSIONS



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)	265°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.