

SMD QUARTZ CRYSTAL SPECIFICATION

SERIES „SMD03025/4 16.000 MHZ 10/20/-40+85/12PF“

FEATURES

- + Cheapest available SMD-Crystal
- + High reliability for low cost
- + Extended temperature range to -40/+125°C available
- + LRT-TECHNOLOGY Inside (LRT is Low ESR Resonator-Technology)^[1]
- + 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



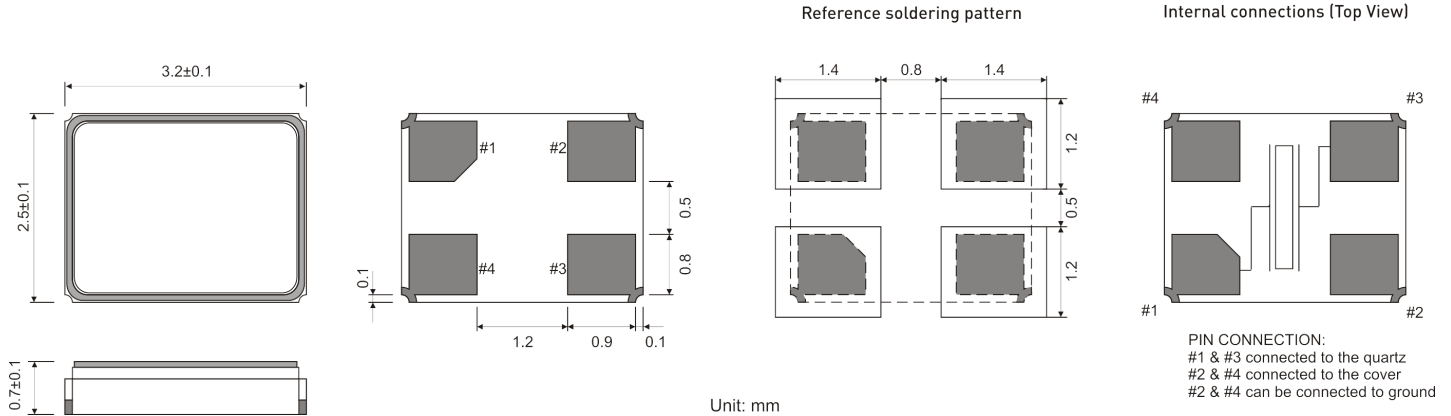
GENERAL DATA

PARAMETERS	PRODUCT FEATURES AND CONDITIONS
SMD-CRYSTAL SERIES	SMD03025/4
PACKAGE HEIGHT	0.8 mm max.
FREQUENCY	16.000 MHz
MODE OF VIBRATION	AT-FUNDAMENTAL
EQUIVALENT SERIES RESISTANCE	85 Ω max.
FREQUENCY TOLERANCE AT 25°C	±10 ppm
LOAD CAPACITANCE (CL)	12 pF
WORKING TEMPERATURE RANGE	-40/+85°C
TEMPERATURE STABILITY	±20 ppm over -40/+85°C (referred to +25°C)
SHUNT CAPACITANCE (C ₀)	2 pF max.
AGING	±2 ppm max. after first year / ±10 ppm max. after 10 years
DRIVE LEVEL	100 μW typ. / 200 μW max.
INSULATION RESISTANCE	>500 MΩ DC/100V ±10V
STORAGE TEMPERATURE	-55/+125°C
PRODUCT WEIGHT	0.027 g
MSL LEVEL	1
DELIVERY FORM	Tape & Reel (3.000 pcs)
RoHS	Lead free and RoHS compliant
SOLDERING CONDITION	See reflow solder profile
MARKING	Line 1 = 16W112 Line 2 = xxxx [xxxx = date code]
ORDERING CODE	SMD03025/4 16.000 MHz 10/20/-40+85/12pF
CUSTOMER P/N	
PETERMANN-TECHNIK P/N	QEU9010001

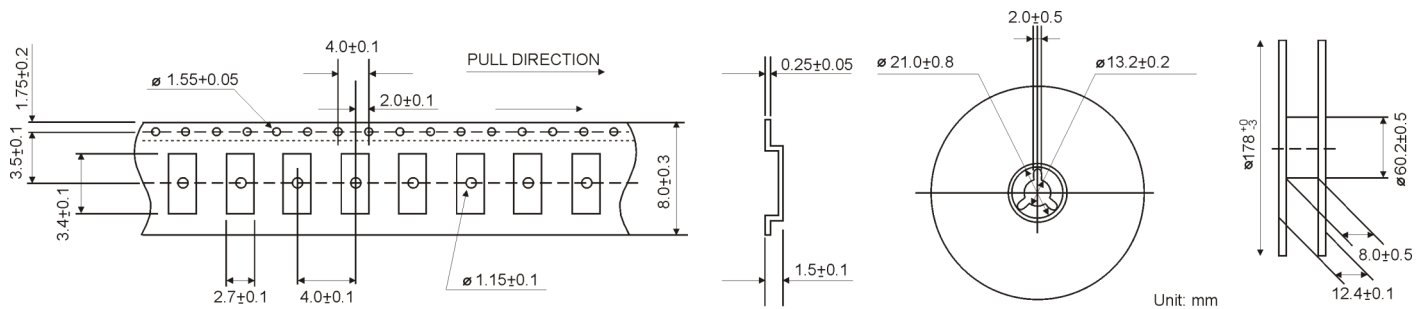
Note:

1. LRT is optimized low ESR resonator design for fast and secure oscillation start-up.
2. The reference temperature for all specified values and tests is +25°C.
3. Do not use cleaning baths operating at ultrasonic frequencies or ultrasonic welding processes.
4. Do not solder with hot air gun.

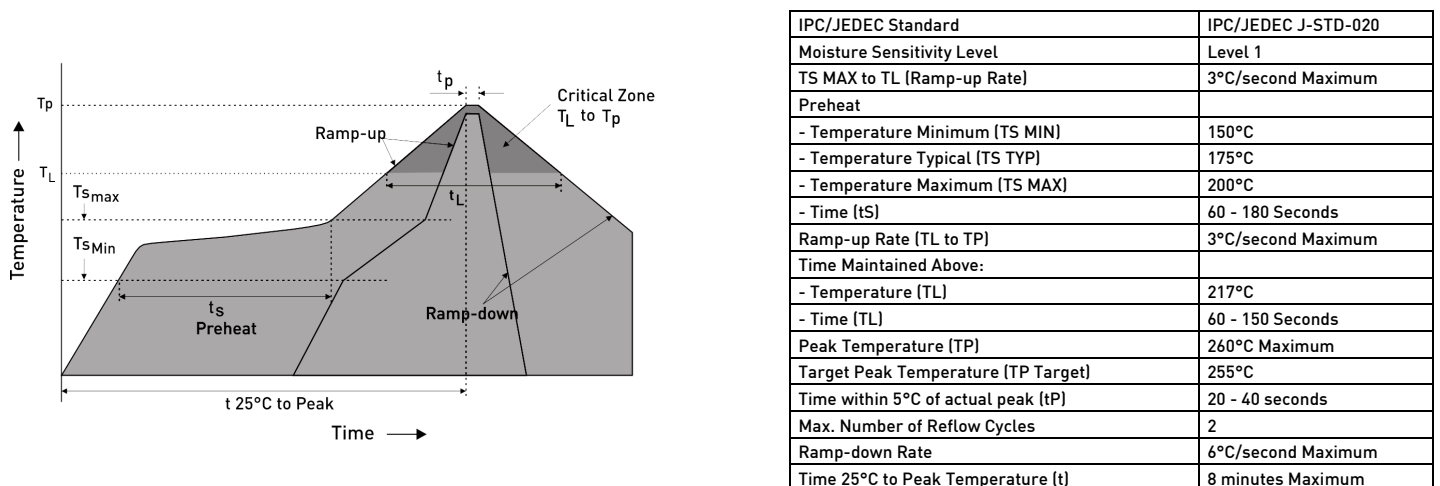
DIMENSIONS



REEL SPECIFICATION



REFLOW SOLDER PROFILE





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 QM-SYSTEM AND QUALITY CONTROL METHODS.