

SPECIFICATION SHEET

MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

| SPECIFICATION SHEET NO. | S0409 - XF40M00000S420 | | | | |
|-------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|--|--|
| ORIGINAL MFG/PART NO. | TGS Crystals/CM32 40M0 | 0A10-20-30-40-40 TLF | | | |
| NEXTGEN PART CODE | XF40M00000S420 | Indicate This Code For RFQ/Order | | | |
| DATE | Apr. 9, 2025 | | | | |
| REVISION | A2 Updated With Most Recent Data | | | | |
| DESCRIPTION AND | MHz SMD Crystal 4 pads, XF series, Seam Seal, | | | | |
| MAIN PARAMETRICS | Frequency stability ±30pp | LOppm, Load Capacitor 20pF Dom; Operating Temp. Range -40°C ~+85°C Profile Condition 260 °C Max. OOpcs/Reel | | | |
| CUSTOMER | | | | | |
| CUSTOMER PART NUMBER | | | | | |
| CROSS REF. PART NUMBER | | | | | |
| МЕМО | | | | | |

VENDOR APPROVE

Issued/Checked/Approved







Effective Date: Apr. 9, 2025

| CUSTOMER APPROVE | | |
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4/9/2025

NextGen Components, Inc.

Date:



MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

MAIN FEATURE

- MHz SMD Crystal L3.2*W2.5*H0.7mm 4 Pads
- · Low Cost, High Precision, High Frequency Stability
- Short Lead time
- Reflow Profile Condition 260 $^{\circ}$ C Max.
- Cross More Competitors Part
- REACH/RoHS/RoHS III Compliant

APPLICATION

- Bluetooth, Wireless Communication Set
- Communication Electronics

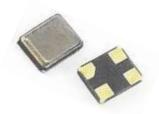


Image shown is a representation only.

Exact specifications should be obtained from the product dimension.





ELECTRICAL CHARACTERISTICS

- See Page 6~10 For Different Part Code.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.

PART CODE: **XF40M0000S420**MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

HOW TO ORDER

• Please Follow Up Part Code Guide And Indicate NextGen Part Code XF40M00000S420 For RFQ and Order.

PART CODE GUIDE

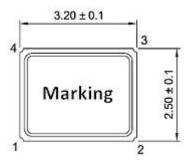


| CODE | NAME | KEY SPECIFICATION OPTION |
|-----------|--------------------------------|-------------------------------------------------------------------------------|
| XF | Product Series Code | MHz SMD Crystal, Seam Seal, 4 Pads Case Dimension L3.2*W2.5*H0.7mm |
| 40M0 | Frequency Range Code | 40M0: 40.0MHz |
| 0000\$420 | Internal Control Code | Letter A~Z, a~z or digits (0~9) |
| XX | Special/Custom Parameters Code | Blank: N/A XX: Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters |

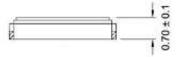
MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

DIMENSION - Unit: mm

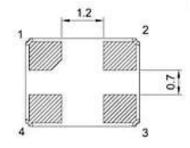
Top View



Side View



Bottom View



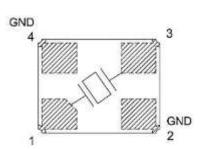
Connection

#1 Crystal

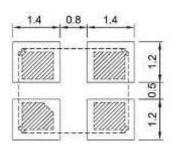
#2 Ground

#3 Crystal

#4 Ground



Recommend Pad Layout



4/9/2025 4



MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

GENERAL SPECIFICATION

| | | | VALUE | | | CONDITION |
|------------------------|--------|------|---------|-------|------|---------------|
| PARAMETER | SYMBOL | MIN. | TYPE | MAX. | UNIT | |
| Mode of Vibration Code | | | Fundame | ental | | |
| Frequency Tolerance | △F/F0 | ±10 | - | ±50 | ppm | at 25°C±3°C |
| Load Capacitance | CL | 7 | - | 20 | pF | |
| Frequency Stability | Тс | ±10 | - | ±50 | ppm | |
| Operating Temp. Range | TOPR | -40 | - | +125 | °C | |
| Storage Temp. Range | TSTG | -55 | - | +125 | °C | |
| Drive Level | DL | - | - | 100 | μW | |
| Insulation Resistance | IR | 500 | - | | mΩ | @100V ± 15VDC |
| Shunt Capacitance | C0 | - | - | 3.0 | pF | |
| Aging per year | Fa | -3 | - | +3 | ppm | 1st Year |

MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

| PART CODE | FREQUENCY RANGE MHz | FREQUENCY TOLERANCE ppm | | FREQUENCY STABILITY ppm | OPERATING TEMPE. RANGE | EQUIVALENT SERIES RESISTANCE Ω Max. |
|----------------|---------------------------|-------------------------------|----|-------------------------------|------------------------------|-------------------------------------|
| XF8M000000S410 | 8.000000 | ±10 | 10 | ±30 | -40 ~ +85 | 350 |
| XF8M000000S412 | 8.000000 | ±10 | 12 | ±30 | -40 ~ +85 | 350 |
| XF8M00000S4118 | 8.000000 | ±10 | 18 | ±50 | -40 ~ +125 | 300 |
| XF11M05920S420 | 11.05920 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF12M00000S110 | 12.00000 | ±20 | 8 | ±30 | -40 ~ +85 | 100 |
| XF12M0000S4310 | 12.00000 | ±30 | 10 | ±30 | -40 ~ +85 | 80 |
| XF12M00000S410 | 12.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 100 |
| XF12M00000S412 | 12.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 100 |
| XF12M00000S101 | 12.00000 | ±30 | 18 | ±30 | -20 ~ +70 | 100 |
| XF12M00000S420 | 12.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF12M28800S412 | 12.28800 | ±10 | 12 | ±30 | -40 ~ +85 | 100 |
| XF12M28800S415 | 12.28800 | ±20 | 15 | ±30 | -40 ~ +85 | 80 |
| XF13M52127S420 | 13.52127 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF13M56000S420 | 13.56000 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF13M82400S412 | 13.82400 | ±10 | 12 | ±30 | -40 ~ +85 | 100 |
| XF14M31818S412 | 14.31818 | ±10 | 12 | ±30 | -40 ~ +85 | 100 |
| XF14M31818S420 | 14.31818 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF14M74560S420 | 14.74560 | ±10 | 20 | ±30 | -40 ~ +85 | 100 |
| XF16M00000S110 | 16.00000 | ±20 | 8 | ±30 | -40 ~ +85 | 80 |
| XF16M00000S409 | 16.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 100 |

MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

| PART CODE | FREQUENCY RANGE MHz | FREQUENCY TOLERANCE ppm | LOAD CAPACITANCE pF | FREQUENCY STABILITY ppm | OPERATING TEMPE. RANGE | EQUIVALENT SERIES RESISTANCE Ω Max. |
|----------------|---------------------------|-------------------------------|---------------------------|-------------------------------|------------------------------|--------------------------------------------|
| XF16M00000S410 | 16.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 80 |
| XF16M00000S412 | 16.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 100 |
| XF16M00000S418 | 16.00000 | ±50 | 18 | ±30 | -40 ~ +85 | 80 |
| XF18M00000S412 | 18.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 80 |
| XF18M43200S420 | 18.43200 | ±20 | 20 | ±30 | -40 ~ +85 | 80 |
| XF19M20000S407 | 19.20000 | ±10 | 7 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S408 | 20.00000 | ±10 | 8 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S409 | 20.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S415 | 20.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S416 | 20.00000 | ±10 | 16 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S418 | 20.00000 | ±10 | 18 | ±30 | -40 ~ +85 | 60 |
| XF20M00000S420 | 20.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF22M11840S420 | 22.11840 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF24M00000S409 | 24.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 60 |
| XF24M00000S410 | 24.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 60 |
| XF24M00000S412 | 24.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF24M0000S4112 | 24.00000 | ±20 | 12 | ±50 | -40 ~ +125 | 50 |
| XF24M00000S415 | 24.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 60 |
| XF24M00000S416 | 24.00000 | ±10 | 16 | ±30 | -40 ~ +85 | 60 |
| XF24M000S12418 | 24.00000 | ±10 | 18 | ±20 | -40 ~ +85 | 60 |

MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

| PART CODE | FREQUENCY RANGE | FREQUENCY TOLERANCE | LOAD CAPACITANCE | FREQUENCY STABILITY | OPERATING TEMPE. RANGE | EQUIVALENT SERIES RESISTANCE |
|----------------|--------------------|------------------------|---------------------|------------------------|------------------------|------------------------------|
| | MHz | ppm | pF | ppm | °C | Ω Max. |
| XF24M000S13418 | 24.00000 | ±10 | 18 | ±30 | -40 ~ +85 | 60 |
| XF24M00000S418 | 24.00000 | ±30 | 18 | ±50 | -40 ~ +85 | 60 |
| XF24M00000S101 | 24.00000 | ±10 | 18 | ±10 | -20 ~ +75 | 40 |
| XF24M00000S002 | 24.00000 | ±50 | 20 | ±50 | -20 ~ +70 | 50 |
| XF24M00000S420 | 24.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF24M54545S001 | 24.54545 | ±30 | 12 | ±50 | -40 ~ +85 | 80 |
| XF24M57600S412 | 24.57600 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF24M57600S420 | 24.57600 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S408 | 25.00000 | ±10 | 8 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S410 | 25.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S412 | 25.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S416 | 25.00000 | ±10 | 16 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S418 | 25.00000 | ±10 | 18 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S420 | 25.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF25M00000S001 | 25.00000 | ±50 | 20 | ±50 | -40 ~ +85 | 40 |
| XF26M00000S409 | 26.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 60 |
| XF26M00000S412 | 26.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF26M00000S415 | 26.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 60 |
| XF26M00000S420 | 26.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF27M00000S410 | 27.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 60 |

MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

| PART CODE | FREQUENCY | FREQUENCY | CAPACITANCE | FREQUENCY STABILITY | OPERATING TEMPE. RANGE | EQUIVALENT SERIES RESISTANCE |
|----------------|-----------|-----------|-------------|------------------------|------------------------------|------------------------------------|
| | MHz | ppm | pF | ppm | °C | Ω Max. |
| XF27M00000S412 | 27.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF27M00000S415 | 27.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 60 |
| XF27M00000S418 | 27.00000 | ±10 | 18 | ±30 | -40 ~ +85 | 60 |
| XF27M00000S420 | 27.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF27M12000S410 | 27.12000 | ±10 | 10 | ±30 | -40 ~ +85 | 60 |
| XF27M12000S412 | 27.12000 | ±10 | 12 | ±30 | -40 ~ +85 | 60 |
| XF27M12000S420 | 27.12000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF28M00000S410 | 28.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 60 |
| XF28M63636S420 | 28.63636 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF30M00000S420 | 30.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| XF32M00000S409 | 32.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 40 |
| XF32M00000S410 | 32.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 40 |
| XF32M00000S411 | 32.00000 | ±10 | 11 | ±30 | -40 ~ +85 | 40 |
| XF37M40000S409 | 37.40000 | ±10 | 9 | ±30 | -40 ~ +85 | 60 |
| XF37M40000S412 | 37.40000 | ±10 | 12 | ±30 | -40 ~ +85 | 40 |
| XF37M40000S416 | 37.40000 | ±10 | 16 | ±30 | -40 ~ +85 | 40 |
| XF40M00000S408 | 40.00000 | ±10 | 8 | ±30 | -40 ~ +85 | 40 |
| XF40M00000S409 | 40.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 40 |
| XF40M00000S410 | 40.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 40 |
| XF40M00000S412 | 40.00000 | ±10 | 12 | ±30 | -40 ~ +85 | 40 |



MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

| FREQUENCY RANGE FREQUENCY TOLERANCE LOAD CAPACITANCE FREQUENCY STABILITY EQUIVALENT TEMPE. RANGE EQUIVALENT SERIES RESISTANCE XF40M000005410 40.00000 ±10 15 ±30 -40 ~ +85 40 XF40M000005420 40.00000 ±10 20 ±30 -40 ~ +85 40 XF48M000005420 48.00000 ±10 9 ±30 -40 ~ +85 40 XF50M000005420 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M000005420 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M000005420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF52M000005420 50.00000 ±10 10 ±30 -40 ~ +85 40 XF54M000005415 54.00000 ±10 15 ±30 -40 ~ +85 40 XF54M000005415 54.00000 ±10 15 ±30 -40 ~ +85 40 XF54M000005415 54.00000 ±10 15 | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----|----|-----|-----------|--------|
| XF40M00000S415 40.00000 ±10 15 ±30 -40 ~ +85 40 XF40M00000S420 40.00000 ±10 20 ±30 -40 ~ +85 40 XF48M00000S409 48.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 48.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | PART CODE | | | | | TEMPE. | SERIES |
| XF40M00000S420 40.00000 ±10 20 ±30 -40 ~ +85 40 XF48M00000S409 48.00000 ±10 9 ±30 -40 ~ +85 40 XF48M00000S420 48.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S409 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | | MHz | ppm | pF | ppm | °C | Ω Max. |
| XF48M00000S409 48.00000 ±10 9 ±30 -40 ~ +85 40 XF48M00000S420 48.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S409 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | XF40M00000S415 | 40.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 40 |
| XF48M00000S420 48.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S409 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | XF40M00000S420 | 40.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 40 |
| XF50M00000S409 50.00000 ±10 9 ±30 -40 ~ +85 40 XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | XF48M00000S409 | 48.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 40 |
| XF50M00000S420 50.00000 ±10 20 ±30 -40 ~ +85 40 XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | XF48M00000S420 | 48.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 40 |
| XF50M00000S410 50.00000 ±10 10 ±30 -40 ~ +85 40 XF52M00000S420 52.00000 ±10 20 ±30 -40 ~ +85 60 | XF50M00000S409 | 50.00000 | ±10 | 9 | ±30 | -40 ~ +85 | 40 |
| XF52M00000S420 52.00000 ±10 20 ±30 -40~+85 60 | XF50M00000S420 | 50.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 40 |
| | XF50M00000S410 | 50.00000 | ±10 | 10 | ±30 | -40 ~ +85 | 40 |
| XF54M00000S415 54.00000 ±10 15 ±30 -40~+85 40 | XF52M00000S420 | 52.00000 | ±10 | 20 | ±30 | -40 ~ +85 | 60 |
| | XF54M00000S415 | 54.00000 | ±10 | 15 | ±30 | -40 ~ +85 | 40 |
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MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

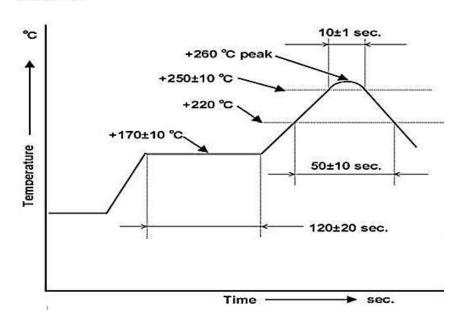
RELIABILITY - MECHANICAL AND ENVIRONMENTAL ENDURANCE

| TEST ITEMS | TEST METHOD AND CONDITIONS | REQUIREMENTS |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Drop | Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30mm.) | Frequency change: ≤5ppm Rr as specification |
| Shake | Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes, test after 1 hours. | Frequency change: ≤5ppm Rr as specification |
| Airproof | Put crystal into the pressure cabin with alcohol, keep pressure 0.4~0.5mpa 10 minutes, then take out and blow for 5 minutes | IR≥500MΩ |
| Weld | Temperature: 260±5°C Time: 3 seconds | 90% exhibit tin ok |
| Humidity | Temperature: +40±2°C Humidity: 90%~95% R.H. Time: 250 hours | Frequency change: ≤5ppm Rr as specification |
| Low temperature | Temperature: -30±2°C Time: 250 hours put in room temperature, test after 1 hours. | Frequency change: ≤5ppm Rr as specification |
| High Temperature | Temperature: +85±2°C Time: 250 hours put in room temperature, test after 1 hours. | Frequency change: ≤5ppm Rr as specification |
| Temperature cycling | -30±3°C/30±3 min~+85±2°C/30±3min, 5 cycles | Frequency change: ≤5ppm Rr as specification |

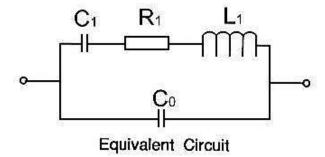


SUGGESTED REFLOW PROFILE - FOR REFERENCE ONLY

Condition:



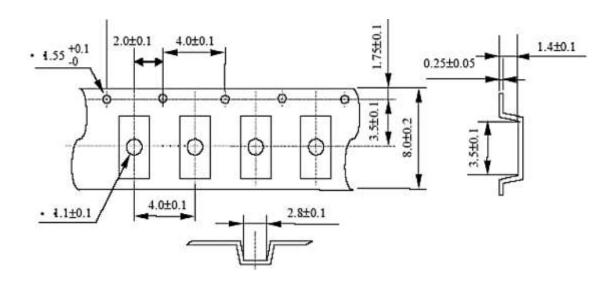
EQUIVALENT CIRCUIT

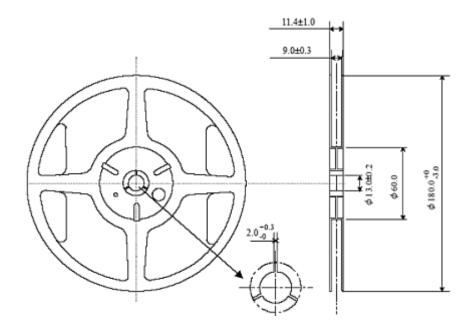




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TAPE AND REEL - Unit: mm, 3000pcs/Reel





MHZ SMD CRYSTAL SEAM SEAL 3225 TYPE XF SERIES

IMPORTANT NOTES AND DISCLAIMER

- ROHS COMPLIANCE: The levels of RoHS restricted materials in this product are below the maximum
 concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an
 exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for
 this product can be obtained can be obtained at Download Center.
- REACH COMPLIANCE: REACH substances of high concern (SVHCs) information is available for this product.
 Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test
 conditions, unless otherwise noted. Product performance may not be indicated by the Electrical
 Characteristics if operated under different conditions.
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