

# **SPECIFICATION SHEET**

MHZ SMD CRYSTAL CERAMIC COVER 2 PADS XR SERIES

SPECIFICATION SHEET NO.	R1230 - XR12M28800S420					
ORIGINAL MFG/PART NO.	TGS Crystals/CMG532 12M288A30-20-30-40-80TLH					
NEXTGEN PART CODE	XR12M28800S420	Indicate This Code For <u>RFQ/</u> Order				
DATE	Dec. 30, 2024					
REVISION	A1 Updated With Most Recent Data					
DESCRIPTION AND	MHz SMD Crystal Glass s	eal, Ceramic Cover, 5032 Type, 2 pads, XR Series				
MAIN PARAMETRICS	Dimension L5.0*W3.2*H	1.2mm				
	12.288MHz, Tolerance ±	30ppm, Load Capacitor 20pF				
	Frequency stability ±30p	pm; Operating Temp. Range -40°C ~+85°C,				
	ESR 80 ohm Max, Reflow	Profile Condition 260 °C Max.				
	Package in Tape/Reel, 10	00pcs/Reel				
	RoHS/RoHS III compliant,	RoHS Annex III lead Exemption (exempt per RoHS				
	EU 2015/863)					
CUSTOMER						
CUSTOMER PART NUMBER						
CROSS REF. PART NUMBER						
МЕМО						

VENDOR APPROVE			
Issued/Checked/Approved	Compose Compose Compose Xu Xu Xu	Ruby Chang	amporter Jack Zhang Tratis
Effective Date: Dec. 30, 2024			

Date:

12/30/2024

NextGen Components, Inc.

**CUSTOMER APPROVE** 



## PART CODE: XR12M28800S420 MHZ SMD CRYSTAL CERAMIC COVER 2 PADS XR SERIES

#### **MAIN FEATURE**

- MHz SMD Crystal, 5032 Type, L5.0\*W3.2\*H1.2mm, 2 pads
- Glass seal, Ceramic Cover
- Low cost, High precision, High frequency stability.
- Low Profile and Short Lead time
- RoHS/RoHS III Compliant, RoHS Annex III Lead Exemption

(exempt per RoHS EU 2015/863)

- Moist are Sensitivity Level (MSL) Level 1
- Excellent Aging and Wide Frequency Range

#### APPLICATION

- Bluetooth, wireless communication set
- Communication Electronics

#### **ELECTRICAL CHARACTERISTICS**

- See Page 5 ~ Page 13 For Different Part Code And Rated Voltage.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.



Image shown is a representation only. Exact specifications should be obtained from the product dimension.





## HOW TO ORDER

• Please Follow Up Part Code Guide And Indicate NextGen Part Code <u>XR12M28800S420</u> For RFQ and Order.

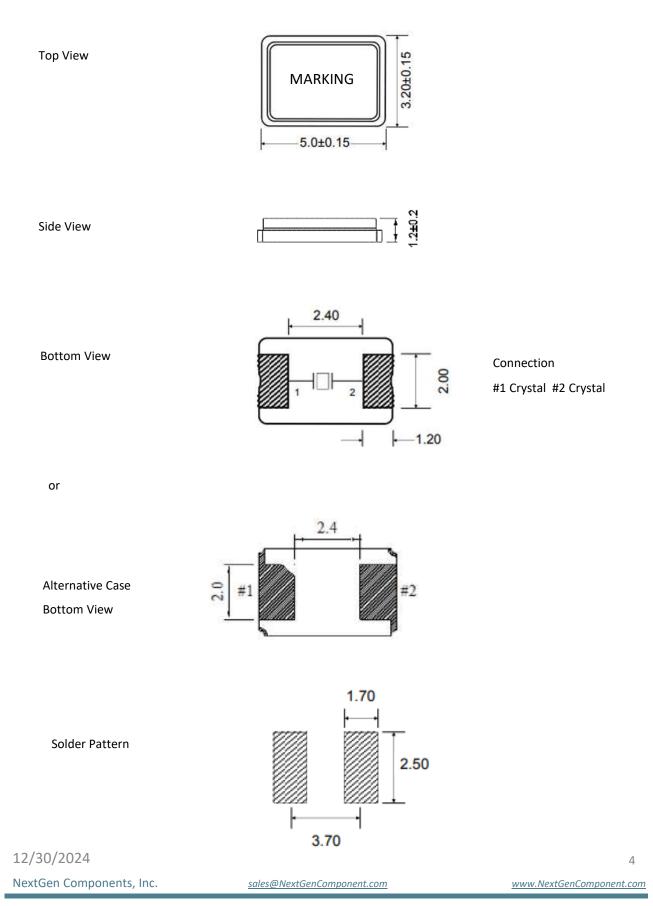
#### PART CODE GUIDE



CODE	NAME	KEY SPECIFICATION OPTION
XR	Series Code	MHz SMD Crystal Glass seal, Ceramic Cover, 5032 Type, 2 pads
12M288	Frequency Range Code	12M288: 12.288MHz or Custom Frequency Range by Page 6~ Page 13
00S	Internal Control Code	Letter A~Z, a~z or digits (0~9)
420	Parameters code	Special Parameters Code Letter A~Z, a~z or digits (1-9)
()	Special/Custom Parameters Code	Blank: N/A XX: Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters



#### DIMENSION (Unit: Inch/mm)





PART CODE: **XR12M28800S420** MHZ SMD CRYSTAL CERAMIC COVER 2 PADS XR SERIES

#### **GENERAL SPECIFICATION**

	SYMPOL		VALUE			CONDITION
PARAMETER	SYMBOL	MIN.	TYPE	MAX.	UNIT	
Frequency Range	FO	8.0000	-	54.000	MHz	Customer specified
Mode of Vibration Code			Fundame	ental	1	Optional: 3rd OT Or 5th OT
Frequency Tolerance	∆F/F0	±10	±30	±50	ppm	at 25°C±3°C
Load Capacitance	CL	4	18	Series	pF	Customer specified
Frequency Stability	Тс	±10	±30	±50	ppm	Customer specified
Operating Temp. Range	TOPR	-40	-	+85	°C	Standard
Storage Temp. Range	Тѕтб	-55	-	+125	°C	
Equivalent Series Resistance	ESR		See Table 1		Ω	Customer specified
Drive Level	DL	-	100	200	μW	
Insulation Resistance	IR	500	-		mΩ	At 100VDC
Shunt Capacitance	CO	-	-	5.0	pF	
Aging per year	Fa	-3	-	+3	ppm	1st Year

Table 1

FREQUENCY RANGE	MODE OF VIBRATION	ESR (Ω) MAX
8.00000MHz≤ F0 <10.000MHz	Fundamental	120
10.000MHz≤ F0 <20.000MHz	Fundamental	80
20.000MHz≤ F0 <30.000MHz	Fundamental	40
30.000MHz≤ F0 <54.000MHz	Fundamental	30

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### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR8M0000005410	8.00000	±30	10	±30	-40~+85	120
XR8M000000S412	8.00000	±30	12	±30	-40~+85	120
XR8M000000S416	8.00000	±30	16	±30	-40~+85	120
XR8M0000005418	8.00000	±30	18	±30	-40~+85	120
XR8M000000S420	8.00000	±30	20	±30	-40~+85	120
XR8M192000S410	8.19200	±30	10	±30	-40~+85	120
XR8M192000S412	8.19200	±30	12	±30	-40~+85	120
XR8M192000S416	8.19200	±30	16	±30	-40~+85	120
XR8M192000S418	8.19200	±30	18	±30	-40~+85	120
XR8M192000S420	8.19200	±30	20	±30	-40~+85	120
XR9M216000S410	9.21600	±30	10	±30	-40~+85	120
XR9M216000S412	9.21600	±30	12	±30	-40~+85	120
XR9M216000S416	9.21600	±30	16	±30	-40~+85	120
XR9M216000S418	9.21600	±30	18	±30	-40~+85	120
XR9M216000S420	9.21600	±30	20	±30	-40~+85	120
XR9M830400S410	9.83040	±30	10	±30	-40~+85	120
XR9M830400S412	9.83040	±30	12	±30	-40~+85	120
XR9M830400S416	9.83040	±30	16	±30	-40~+85	120
XR9M830400S418	9.83040	±30	18	±30	-40~+85	120
XR9M830400S420	9.83040	±30	20	±30	-40~+85	120

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### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR10M000005408	10.00000	±30	8	±30	-40~+85	80
XR10M00000S410	10.00000	±30	10	±30	-40~+85	80
XR10M00000S412	10.00000	±30	12	±30	-40~+85	80
XR10M00000S416	10.00000	±30	16	±30	-40~+85	80
XR10M00000S418	10.00000	±30	18	±30	-40~+85	80
XR10M00000S420	10.00000	±30	20	±30	-40~+85	80
XR11M05920S408	11.05920	±30	8	±30	-40~+85	80
XR11M05920S410	11.05920	±30	10	±30	-40~+85	80
XR11M05920S412	11.05920	±30	12	±30	-40~+85	80
XR11M05920S416	11.05920	±30	16	±30	-40~+85	80
XR11M05920S418	11.05920	±30	18	±30	-40~+85	80
XR11M05920S420	11.05920	±30	20	±30	-40~+85	80
XR12M00000S101	12.00000	±30	10	±50	-40~+85	80
XR12M00000S102	12.00000	±20	18	±30	-40~+85	80
XR12M00000S408	12.00000	±30	8	±30	-40~+85	80
XR12M00000S412	12.00000	±30	12	±30	-40~+85	80
XR12M00000S416	12.00000	±30	16	±30	-40~+85	80
XR12M00000S418	12.00000	±30	18	±30	-40~+85	80
XR12M00000S420	12.00000	±30	20	±30	-40~+85	80
XR12M28800S408	12.28800	±30	8	±30	-40~+85	80

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

PART CODE	FREQUENCY	FREQUENCY	LOAD	FREQUENCY STABILITY	OPERATING TEMPE.	EQUIVALENT SERIES
					RANGE	RESISTANCE
	MHz	ppm	pF	ppm	°C	Ω Max.
XR12M28800S410	12.28800	±30	10	±30	-40~+85	80
XR12M28800S412	12.28800	±30	12	±30	-40~+85	80
XR12M28800S416	12.28800	±30	16	±30	-40~+85	80
XR12M28800S418	12.28800	±30	18	±30	-40~+85	80
XR12M28800S420	12.28800	±30	20	±30	-40~+85	80
XR13M56000S408	13.56000	±30	8	±30	-40~+85	80
XR13M56000S410	13.56000	±30	10	±30	-40~+85	80
XR13M56000S412	13.56000	±30	12	±30	-40~+85	80
XR13M56000S416	13.56000	±30	16	±30	-40~+85	80
XR13M56000S418	13.56000	±30	18	±30	-40~+85	80
XR13M56000S420	13.56000	±30	20	±30	-40~+85	80
XR14M31818S218	14.31818	±30	18	±30	-20~+70	80
XR14M31818S408	14.31818	±30	8	±30	-40~+85	80
XR14M31818S410	14.31818	±30	10	±30	-40~+85	80
XR14M31818S412	14.31818	±30	12	±30	-40~+85	80
XR14M31818S416	14.31818	±30	16	±30	-40~+85	80
XR14M31818S418	14.31818	±30	18	±30	-40~+85	80
XR14M31818S420	14.31818	±30	20	±30	-40~+85	80
XR14M74560S408	14.74560	±30	8	±30	-40~+85	80
XR14M74560S410	14.74560	±30	10	±30	-40~+85	80

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### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR14M74560S412	14.74560	±30	12	±30	-40~+85	80
XR14M74560S416	14.74560	±30	16	±30	-40~+85	80
XR14M74560S418	14.74560	±30	18	±30	-40~+85	80
XR14M74560S420	14.74560	±30	20	±30	-40~+85	80
XR16M00000S408	16.00000	±30	8	±30	-40~+85	80
XR16M00000S410	16.00000	±30	10	±30	-40~+85	80
XR16M00000S412	16.00000	±30	12	±30	-40~+85	80
XR16M00000S416	16.00000	±30	16	±30	-40~+85	80
XR16M00000S418	16.00000	±30	18	±30	-40~+85	80
XR16M00000S420	16.00000	±30	20	±30	-40~+85	80
XR18M43200S408	18.43200	±30	8	±30	-40~+85	80
XR18M43200S410	18.43200	±30	10	±30	-40~+85	80
XR18M43200S412	18.43200	±30	12	±30	-40~+85	80
XR18M43200S416	18.43200	±30	16	±30	-40~+85	80
XR18M43200S418	18.43200	±30	18	±30	-40~+85	80
XR18M43200S420	18.43200	±30	20	±30	-40~+85	80
XR19M66080S408	19.66080	±30	8	±30	-40~+85	80
XR19M66080S410	19.66080	±30	10	±30	-40~+85	80
XR19M66080S412	19.66080	±30	12	±30	-40~+85	80
XR19M66080S416	19.66080	±30	16	±30	-40~+85	80

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### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR19M66080S418	19.66080	±30	18	±30	-40~+85	80
XR19M66080S420	19.66080	±30	20	±30	-40~+85	80
XR20M00000S408	20.00000	±30	8	±30	-40~+85	40
XR20M00000S410	20.00000	±30	10	±30	-40~+85	40
XR20M00000S412	20.00000	±30	12	±30	-40~+85	40
XR20M00000S416	20.00000	±30	16	±30	-40~+85	40
XR20M00000S418	20.00000	±30	18	±30	-40~+85	40
XR20M00000S420	20.00000	±30	20	±30	-40~+85	40
XR22M11840S408	22.11840	±30	8	±30	-40~+85	40
XR22M11840S410	22.11840	±30	10	±30	-40~+85	40
XR22M11840S412	22.11840	±30	12	±30	-40~+85	40
XR22M11840S416	22.11840	±30	16	±30	-40~+85	40
XR22M11840S418	22.11840	±30	18	±30	-40~+85	40
XR22M11840S420	22.11840	±30	20	±30	-40~+85	40
XR24M00000S408	24.00000	±30	8	±30	-40~+85	40
XR24M00000S410	24.00000	±30	10	±30	-40~+85	40
XR24M00000S412	24.00000	±30	12	±30	-40~+85	40
XR24M00000S416	24.00000	±30	16	±30	-40~+85	40
XR24M00000S418	24.00000	±30	18	±30	-40~+85	40
XR24M00000S420	24.00000	±30	20	±30	-40~+85	40

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#### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR24M57600S408	24.57600	±30	8	±30	-40~+85	40
XR24M57600S410	24.57600	±30	10	±30	-40~+85	40
XR24M57600S412	24.57600	±30	12	±30	-40~+85	40
XR24M57600S416	24.57600	±30	16	±30	-40~+85	40
XR24M57600S418	24.57600	±30	18	±30	-40~+85	40
XR24M57600S420	24.57600	±30	20	±30	-40~+85	40
XR25M00000S408	25.00000	±30	8	±30	-40~+85	40
XR25M00000S410	25.00000	±30	10	±30	-40~+85	40
XR25M00000S412	25.00000	±30	12	±30	-40~+85	40
XR25M00000S416	25.00000	±30	16	±30	-40~+85	40
XR25M00000S418	25.00000	±30	18	±30	-40~+85	40
XR25M00000S420	25.00000	±30	20	±30	-40~+85	40
XR27M00000S408	27.00000	±30	8	±30	-40~+85	40
XR27M00000S410	27.00000	±30	10	±30	-40~+85	40
XR27M00000S412	27.00000	±30	12	±30	-40~+85	40
XR27M00000S416	27.00000	±30	16	±30	-40~+85	40
XR27M00000S418	27.00000	±30	18	±30	-40~+85	40
XR27M00000S420	27.00000	±30	20	±30	-40~+85	40
XR28M63636S408	28.63636	±30	8	±30	-40~+85	40
XR28M63636S410	28.63636	±30	10	±30	-40~+85	40

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#### **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 °C	EQUIVALENT SERIES RESISTANCE Ω Max.
XR28M63636S412	28.63636	±30	12	±30	-40~+85	40
XR28M63636S416	28.63636	±30	16	±30	-40~+85	40
XR28M63636S418	28.63636	±30	18	±30	-40~+85	40
XR28M63636S420	28.63636	±30	20	±30	-40~+85	40
XR30M00000S408	30.00000	±30	8	±30	-40~+85	30
XR30M00000S410	30.00000	±30	10	±30	-40~+85	30
XR30M00000S412	30.00000	±30	12	±30	-40~+85	30
XR30M00000S416	30.00000	±30	16	±30	-40~+85	30
XR30M00000S418	30.00000	±30	18	±30	-40~+85	30
XR30M00000S420	30.00000	±30	20	±30	-40~+85	30
XR32M00000S408	32.00000	±30	8	±30	-40~+85	30
XR32M00000S410	32.00000	±30	10	±30	-40~+85	30
XR32M00000S412	32.00000	±30	12	±30	-40~+85	30
XR32M00000S416	32.00000	±30	16	±30	-40~+85	30
XR32M00000S418	32.00000	±30	18	±30	-40~+85	30
XR32M00000S420	32.00000	±30	20	±30	-40~+85	30
XR40M00000S408	40.00000	±30	8	±30	-40~+85	30
XR40M00000S410	40.00000	±30	10	±30	-40~+85	30
XR40M00000S412	40.00000	±30	12	±30	-40~+85	30
XR40M00000S416	40.00000	±30	16	±30	-40~+85	30

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

PART CODE	FREQUENCY RANGE	FREQUENCY TOLERANCE	LOAD CAPACITANCE	FREQUENCY STABILITY	OPERATING TEMPE.	EQUIVALENT SERIES
					RANGE	RESISTANCE
	MHz	ppm	pF	ppm	°C	Ω Max.
XR40M00000S418	40.00000	±30	18	±30	-40~+85	30
XR40M00000S420	40.00000	±30	20	±30	-40~+85	30
XR48M00000S410	48.00000	±30	10	±30	-40~+85	30
XR48M00000S412	48.00000	±30	12	±30	-40~+85	30
XR48M00000S416	48.00000	±30	16	±30	-40~+85	30
XR48M00000S418	48.00000	±30	18	±30	-40~+85	30
XR48M00000S420	48.00000	±30	20	±30	-40~+85	30
XR50M00000S410	50.00000	±30	10	±30	-40~+85	30
XR50M00000S412	50.00000	±30	12	±30	-40~+85	30
XR50M00000S416	50.00000	±30	16	±30	-40~+85	30
XR50M00000S418	50.00000	±30	18	±30	-40~+85	30
XR50M00000S420	50.00000	±30	20	±30	-40~+85	30

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#### **RELIABILITY** (MECHANICAL AND ENVIRONMENTAL ENDURANCE)

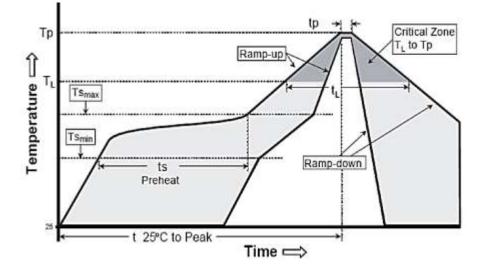
TEST ITEMS	TEST METHOD AND CONDITIONS	REQUIREMENTS
High Temperature High Humidity Storage	Temperature: 85°C±3°C Relative Humidity:85%RH Time: 96 Hours	JIS C5023
High Temperature Storage	Temperature: 125°C±3°C Time: 96 Hours.	MIL-STD-883E Method 1005.8
Low Temperature Storage	Temperature: -40°C±3°C Time: 96 Hours.	MIL-STD-883E Method 1013
Thermal Shock	Temperature 1: -55°C±5°C Temperature 2: 85°C±5 °C Temperature change between T1 and T2 5 min 10cycles maintain T1 and T2 for 30 minutes each cycle	MIL-STD-202F Method 107 Condition A
Resistance to Solder Heat	Solder Temperature: 260°C±5°C Time: 10±1 Seconds	MIL-STD-202F Method 210E
Solderability	The solder pot temperature is $245\pm5^{\circ}C$ , dwell time $5\pm0.5sec$	J-STD-002B
Drop Test	3 Times Free Fall from 50cm height table to 3cm thickness hard wood board	J-STD-002B
Mechanical Shock	nical Shock Half sine wave,1000 G 3 Times for all 3 directions(X,Y Z)	
Vibration	Frequency Range: 10Hz ~ 55Hz Amplitude: 0.75mm 2 Hours in each direction, total 6 Hours	MIL-STD-883E Method 2007.3
Leakage Test	Take measurements with a helium Leakage detector Leakage Rate≤1×10 <sup>-3</sup> Pa cm <sup>3</sup> /s	MIL-STD-883E

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## PART CODE: **XR12M28800S420** MHZ SMD CRYSTAL CERAMIC COVER 2 PADS XR SERIES

#### SUGGESTED REFLOW PROFILE (For Reference Only)



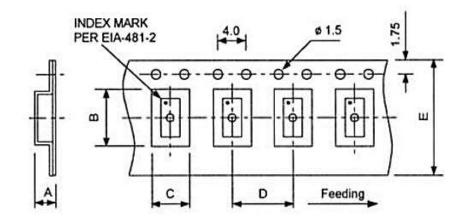
PROFILE FEATURE		PB-FREE ASSEMBLY	
Average Ramp-up Rate (Ts Max to Tp)		3°C/second Max	
Preheat	Temperature Min (Ts Min.)	125°C	
	Temperature Max (Ts Max.)	200°C	
	Time (ts Min. to ts Max.)	60 ~ 180 seconds	
Time maintained above	Temperature (TL)	217°C	
	Time (tL)	60 ~ 150 seconds	
Peak/Classification Temperature (Tp)		260 °C	
Time within 5°C of actual Peak Temperature (tp)		20 ~ 40 seconds	
Ramp-down rate		6 °C /Second Max.	
Time 25 °C to Peak Temperature		8 minutes Max.	
Suggest reflow times		3 Times Max.	

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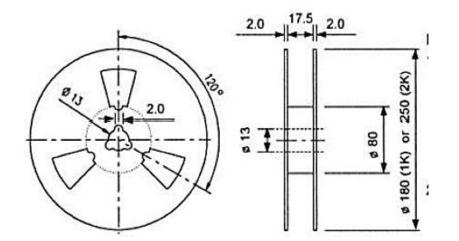


### TAPE AND REEL (1000pcs/Reel, Unit: mm)

All Devices are packed in accordance with EIA standard RS-481-2 and specifications., 1000pcs/Reel



ITEM	DIMENSION	
А	1.70	
В	5.45	
С	3.65	
D	8.00	
E	12.0	



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#### 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 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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#### 12/30/2024