

SPECIFICATION SHEET NO.	S0510 - XB14M31818S412	
ORIGINAL MFG/PART NO.	TGS Crystals/CM75 14M31818A30-12-30-40-50TLF	
NEXTGEN PART CODE	XB14M31818S412	Indicate This Code For RFQ /Order
DATE	May 10, 2025	
REVISION	A2	Updated With Most Recent Data
DESCRIPTION AND MAIN PARAMETRICS	MHz SMD Crystal Seam Seal, 7050 Type XB series, 4 pads Dimension L7.0*W5.0*H1.0mm 14.31818MHz, Tolerance ± 30 ppm, Load Capacitor 12pF Frequency stability ± 30 ppm; Operating Temp. Range -40°C ~+85°C ESR 50ohm Max, Reflow Profile Condition 260 °C Max. Package in Tape/Reel, 1000pcs/Reel RoHS/RoHS III Compliant	
CUSTOMER		
CUSTOMER PART NUMBER		
CROSS REF. PART NUMBER		
MEMO		

VENDOR APPROVE			
Issued/Checked/Approved			
			
Effective Date: May 10, 2025			

CUSTOMER APPROVE	
Date:	

MAIN FEATURE

- MHz SMD Crystal L7.0*W5.0*H1.0mm 4 Pads
- Low Cost
- High Precision
- High Frequency Stability
- Short Lead time
- Reflow Profile Condition 260 ° C Max.
- Cross More Competitors Part
- REACH/RoHS/RoHS III Compliant



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

APPLICATION

- Bluetooth, Wireless Communication Set
- Communication Electronics



ELECTRICAL CHARACTERISTICS

- See Page 6~14 For Different Part Code.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.

HOW TO ORDER

- Please Follow Up Part Code Guide And Indicate NextGen Part Code XB14M31818S412 For RFQ and Order.

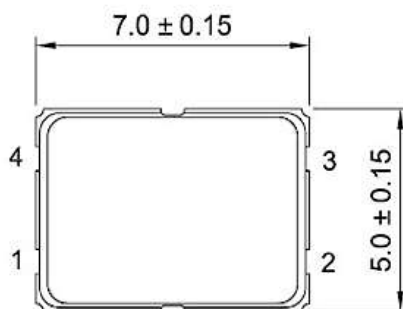
PART CODE GUIDE

RFQ
[Request For Quotation](#)

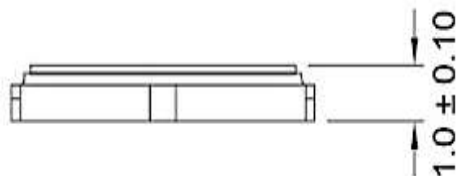
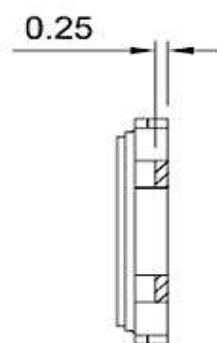
CODE	NAME	KEY SPECIFICATION OPTION
XB	Product Series Code	MHz SMD Crystal, Seam Seal, 4 Pads Case Dimension L7.0*W5.0*H1.0mm
14M31818	Frequency Range Code	14M31818: 14.31818MHz or Specify Frequency Range
S	Internal Control Code	Letter or Digits (A~Z, a~z or 0~9)
412	Parameters Code	Letter or Digits (A~Z, a~z or 0~9)
XX	Special/Custom Parameters Code	Letter or Digits (A~Z, a~z or 0~9) for Special Parametric; Blank: N/A

DIMENSION - Unit: mm

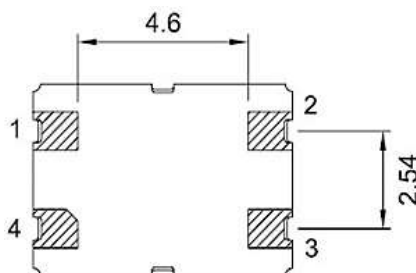
Top View



Side View

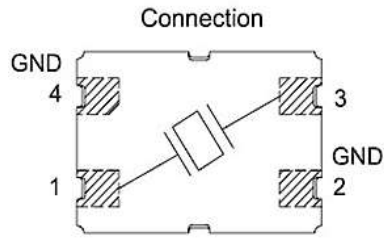


Bottom View

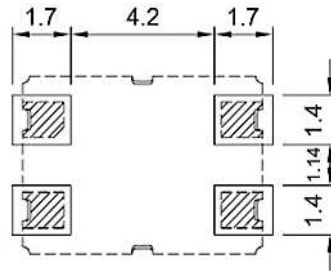


#1 Crystal #2 Ground #3 Crystal #4 Ground

Connection



Recommend Pad Layout



GENERAL SPECIFICATION –Ta = 25°C

PARAMETER	SYMBOL	VALUE			UNIT	CONDITION
		MIN.	TYPE	MAX.		
Mode of Vibration Code		Fundamental				
Frequency Tolerance	△F/F0	± 10	-	± 50	ppm	
Load Capacitance	CL	8	-	30	pF	
Frequency Stability	Tc	± 10	±30	± 50	ppm	
Operating Temp. Range	TOPR	-40	-	+85	°C	
Storage Temp. Range	TSTG	-50	-	+105	°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

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.
XB6M000000S408	6.000000	±30	8	±30	-40 ~ +85	100
XB6M000000S410	6.000000	±30	10	±30	-40 ~ +85	100
XB6M000000S412	6.000000	±30	12	±30	-40 ~ +85	100
XB6M000000S416	6.000000	±30	16	±30	-40 ~ +85	100
XB6M000000S418	6.000000	±30	18	±30	-40 ~ +85	100
XB6M000000S420	6.000000	±10	20	±30	-40 ~ +85	100
XB6M000000S430	6.000000	±30	30	±30	-40 ~ +85	100
XB7M372800S408	7.372800	±30	8	±30	-40 ~ +85	110
XB7M372800S410	7.372800	±30	10	±30	-40 ~ +85	110
XB7M372800S412	7.372800	±30	12	±30	-40 ~ +85	110
XB7M372800S416	7.372800	±30	16	±30	-40 ~ +85	110
XB7M372800S418	7.372800	±30	18	±30	-40 ~ +85	110
XB7M372800S420	7.372800	±30	20	±30	-40 ~ +85	110
XB7M372800S430	7.372800	±30	30	±30	-40 ~ +85	110
XB8M000000S408	8.000000	±30	8	±30	-40 ~ +85	110
XB8M000000S410	8.000000	±30	10	±30	-40 ~ +85	110
XB8M000000S412	8.000000	±30	12	±30	-40 ~ +85	110
XB8M000000S416	8.000000	±30	16	±30	-40 ~ +85	80
XB8M000000S418	8.000000	±30	18	±30	-40 ~ +85	80
XB8M000000S420	8.000000	±30	20	±30	-40 ~ +85	110

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.
XB8M000000S430	8.000000	±30	30	±30	-40 ~ +85	110
XB9M830400S408	9.830400	±30	8	±30	-40 ~ +85	60
XB9M830400S410	9.830400	±30	10	±30	-40 ~ +85	60
XB9M830400S412	9.830400	±30	12	±30	-40 ~ +85	60
XB9M830400S416	9.830400	±30	16	±30	-40 ~ +85	60
XB9M830400S418	9.830400	±30	18	±30	-40 ~ +85	60
XB9M830400S420	9.830400	±30	20	±30	-40 ~ +85	60
XB9M830400S430	9.830400	±30	30	±30	-40 ~ +85	60
XB10M000000S408	10.000000	±30	8	±30	-40 ~ +85	110
XB10M000000S410	10.000000	±30	10	±30	-40 ~ +85	110
XB10M000000S412	10.000000	±30	12	±30	-40 ~ +85	110
XB10M000000S416	10.000000	±30	16	±30	-40 ~ +85	110
XB10M000000S418	10.000000	±30	18	±30	-40 ~ +85	110
XB10M000000S420	10.000000	±30	20	±30	-40 ~ +85	110
XB10M000000S430	10.000000	±30	30	±30	-40 ~ +85	110
XB11M05920S408	11.05920	±30	8	±30	-40 ~ +85	60
XB11M05920S410	11.05920	±30	10	±30	-40 ~ +85	60
XB11M05920S412	11.05920	±30	12	±30	-40 ~ +85	60
XB11M05920S416	11.05920	±30	16	±30	-40 ~ +85	60
XB11M05920S418	11.05920	±30	18	±30	-40 ~ +85	60

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.
XB11M05920S420	11.05920	±30	20	±30	-40 ~ +85	60
XB11M05920S430	11.05920	±30	30	±30	-40 ~ +85	60
XB12M00000S408	12.00000	±30	8	±30	-40 ~ +85	50
XB12M00000S410	12.00000	±30	10	±30	-40 ~ +85	50
XB12M00000S412	12.00000	±30	12	±30	-40 ~ +85	50
XB12M00000S416	12.00000	±30	16	±30	-40 ~ +85	50
XB12M00000S418	12.00000	±30	18	±30	-40 ~ +85	50
XB12M00000S420	12.00000	±30	20	±30	-40 ~ +85	50
XB12M00000S430	12.00000	±30	30	±30	-40 ~ +85	50
XB12M50000S418	12.50000	±30	18	±30	-40 ~ +85	60
XB14M31818S408	14.31818	±30	8	±30	-40 ~ +85	50
XB14M31818S410	14.31818	±30	10	±30	-40 ~ +85	50
XB14M31818S412	14.31818	±30	12	±30	-40 ~ +85	50
XB14M31818S416	14.31818	±30	16	±30	-40 ~ +85	50
XB14M31818S418	14.31818	±30	18	±30	-40 ~ +85	50
XB14M31818S420	14.31818	±30	20	±30	-40 ~ +85	50
XB14M31818S430	14.31818	±30	30	±30	-40 ~ +85	50
XB14M74560S408	14.74560	±30	8	±30	-40 ~ +85	50
XB14M74560S410	14.74560	±30	10	±30	-40 ~ +85	50
XB14M74560S412	14.74560	±30	12	±30	-40 ~ +85	50

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.
XB14M74560S416	14.74560	±30	16	±30	-40 ~ +85	50
XB14M74560S418	14.74560	±30	18	±30	-40 ~ +85	50
XB14M74560S420	14.74560	±30	20	±30	-40 ~ +85	50
XB14M74560S430	14.74560	±30	30	±30	-40 ~ +85	50
XB16M00000S408	16.00000	±30	8	±30	-40 ~ +85	45
XB16M00000S410	16.00000	±30	10	±30	-40 ~ +85	45
XB16M00000S412	16.00000	±30	12	±30	-40 ~ +85	45
XB16M00000S416	16.00000	±30	16	±30	-40 ~ +85	45
XB16M00000S418	16.00000	±30	18	±30	-40 ~ +85	45
XB16M00000S420	16.00000	±30	20	±30	-40 ~ +85	45
XB16M00000S430	16.00000	±30	30	±30	-40 ~ +85	45
XB16M38400S408	16.38400	±30	8	±30	-40 ~ +85	45
XB16M38400S410	16.38400	±30	10	±30	-40 ~ +85	45
XB16M38400S412	16.38400	±30	12	±30	-40 ~ +85	45
XB16M38400S416	16.38400	±30	16	±30	-40 ~ +85	45
XB16M38400S418	16.38400	±30	18	±30	-40 ~ +85	45
XB16M38400S420	16.38400	±30	20	±30	-40 ~ +85	45
XB16M38400S430	16.38400	±30	30	±30	-40 ~ +85	45
XB16M93440S408	16.93440	±30	8	±30	-40 ~ +85	45
XB16M93440S410	16.93440	±30	10	±30	-40 ~ +85	45

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.
XB16M93440S412	16.93440	±30	12	±30	-40 ~ +85	45
XB16M93440S416	16.93440	±30	16	±30	-40 ~ +85	45
XB16M93440S418	16.93440	±30	18	±30	-40 ~ +85	45
XB16M93440S420	16.93440	±30	20	±30	-40 ~ +85	45
XB16M93440S430	16.93440	±30	30	±30	-40 ~ +85	45
XB18M43200S408	18.43200	±30	8	±30	-40 ~ +85	45
XB18M43200S410	18.43200	±30	10	±30	-40 ~ +85	45
XB18M43200S412	18.43200	±30	12	±30	-40 ~ +85	45
XB18M43200S416	18.43200	±30	16	±30	-40 ~ +85	45
XB18M43200S418	18.43200	±30	18	±30	-40 ~ +85	45
XB18M43200S420	18.43200	±30	20	±30	-40 ~ +85	45
XB18M43200S430	18.43200	±30	30	±30	-40 ~ +85	45
XB20M00000S408	20.00000	±30	8	±30	-40 ~ +85	45
XB20M00000S410	20.00000	±30	10	±30	-40 ~ +85	45
XB20M00000S412	20.00000	±30	12	±30	-40 ~ +85	45
XB20M00000S416	20.00000	±30	16	±30	-40 ~ +85	45
XB20M00000S418	20.00000	±30	18	±30	-40 ~ +85	45
XB20M00000S420	20.00000	±30	20	±30	-40 ~ +85	45
XB20M00000S430	20.00000	±30	30	±30	-40 ~ +85	45
XB22M11840S408	22.11840	±30	8	±30	-40 ~ +85	30

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.
XB22M11840S410	22.11840	±30	10	±30	-40 ~ +85	30
XB22M11840S412	22.11840	±30	12	±30	-40 ~ +85	30
XB22M11840S416	22.11840	±30	16	±30	-40 ~ +85	30
XB22M11840S418	22.11840	±30	18	±30	-40 ~ +85	30
XB22M11840S420	22.11840	±30	20	±30	-40 ~ +85	30
XB22M11840S430	22.11840	±30	30	±30	-40 ~ +85	30
XB24M00000S408	24.00000	±30	8	±30	-40 ~ +85	30
XB24M00000S410	24.00000	±30	10	±30	-40 ~ +85	30
XB24M00000S412	24.00000	±30	12	±30	-40 ~ +85	30
XB24M00000S416	24.00000	±30	16	±30	-40 ~ +85	30
XB24M00000S418	24.00000	±30	18	±30	-40 ~ +85	30
XB24M00000S420	24.00000	±30	20	±30	-40 ~ +85	30
XB24M00000S430	24.00000	±30	30	±30	-40 ~ +85	30
XB24M57600S408	24.57600	±30	8	±30	-40 ~ +85	30
XB24M57600S410	24.57600	±30	10	±30	-40 ~ +85	30
XB24M57600S412	24.57600	±30	12	±30	-40 ~ +85	30
XB24M57600S416	24.57600	±30	16	±30	-40 ~ +85	30
XB24M57600S418	24.57600	±30	18	±30	-40 ~ +85	30
XB24M57600S420	24.57600	±30	20	±30	-40 ~ +85	30
XB24M57600S430	24.57600	±30	30	±30	-40 ~ +85	30

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.
XB25M00000S408	26.00000	±30	8	±30	-40 ~ +85	30
XB25M00000S410	26.00000	±30	10	±30	-40 ~ +85	30
XB25M00000S412	26.00000	±30	12	±30	-40 ~ +85	30
XB25M00000S416	26.00000	±30	16	±30	-40 ~ +85	30
XB25M00000S418	26.00000	±30	18	±30	-40 ~ +85	30
XB25M00000S420	26.00000	±30	20	±30	-40 ~ +85	60
XB25M00000S430	26.00000	±30	30	±30	-40 ~ +85	30
XB27M00000S408	27.00000	±30	8	±30	-40 ~ +85	30
XB27M00000S410	27.00000	±30	10	±30	-40 ~ +85	30
XB27M00000S412	27.00000	±30	12	±30	-40 ~ +85	30
XB27M00000S416	27.00000	±30	16	±30	-40 ~ +85	30
XB27M00000S418	27.00000	±30	18	±30	-40 ~ +85	30
XB27M00000S420	27.00000	±30	20	±30	-40 ~ +85	30
XB27M00000S430	27.00000	±30	30	±30	-40 ~ +85	30
XB29M49120S408	29.49120	±30	8	±30	-40 ~ +85	30
XB29M49120S410	29.49120	±30	10	±30	-40 ~ +85	30
XB29M49120S412	29.49120	±30	12	±30	-40 ~ +85	30
XB29M49120S416	29.49120	±30	16	±30	-40 ~ +85	30
XB29M49120S418	29.49120	±30	18	±30	-40 ~ +85	30
XB29M49120S420	29.49120	±30	20	±30	-40 ~ +85	30

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.
XB29M49120S430	29.49120	±30	30	±30	-40 ~ +85	30
XB30M00000S408	30.00000	±30	8	±30	-40 ~ +85	40
XB30M00000S410	30.00000	±30	10	±30	-40 ~ +85	40
XB30M00000S412	30.00000	±30	12	±30	-40 ~ +85	40
XB30M00000S416	30.00000	±30	16	±30	-40 ~ +85	40
XB30M00000S418	30.00000	±30	18	±30	-40 ~ +85	40
XB30M00000S420	30.00000	±30	20	±30	-40 ~ +85	40
XB30M00000S430	30.00000	±30	30	±30	-40 ~ +85	40
XB32M00000S408	32.00000	±30	8	±30	-40 ~ +85	20
XB32M00000S410	32.00000	±30	10	±30	-40 ~ +85	20
XB32M00000S412	32.00000	±30	12	±30	-40 ~ +85	20
XB32M00000S416	32.00000	±30	16	±30	-40 ~ +85	20
XB32M00000S418	32.00000	±30	18	±30	-40 ~ +85	20
XB32M00000S420	32.00000	±30	20	±30	-40 ~ +85	20
XB32M00000S430	32.00000	±30	30	±30	-40 ~ +85	20
XB36M00000S408	36.00000	±30	8	±30	-40 ~ +85	20
XB36M00000S410	36.00000	±30	10	±30	-40 ~ +85	20
XB36M00000S412	36.00000	±30	12	±30	-40 ~ +85	20
XB36M00000S416	36.00000	±30	16	±30	-40 ~ +85	20
XB36M00000S418	36.00000	±30	18	±30	-40 ~ +85	20

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

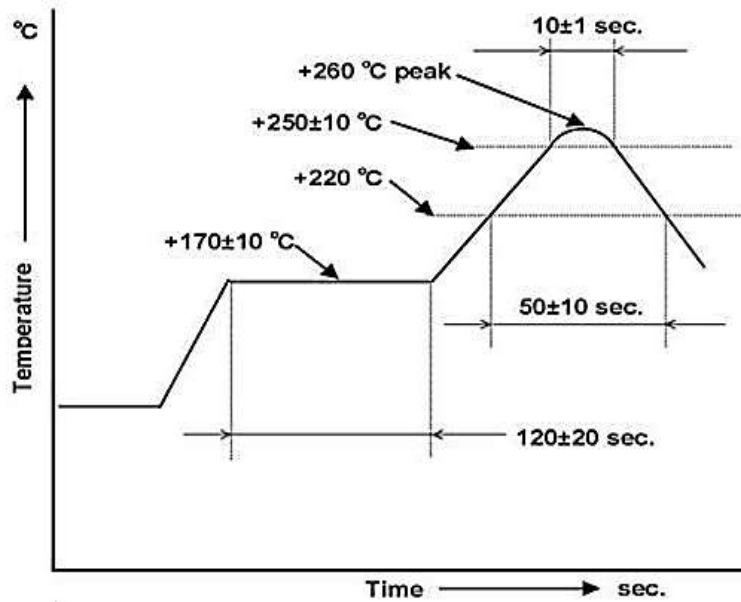
PART CODE	FREQUENCY RANGE	FREQUENCY TOLERANCE	LOAD CAPACITANCE	FREQUENCY STABILITY	OPERATING TEMPE. RANGE	EQUIVALENT SERIES RESISTANCE
	MHz	ppm	pF	ppm	°C	Ω Max.
XB36M00000S420	36.00000	±30	20	±30	-40 ~ +85	20
XB36M00000S430	36.00000	±30	30	±30	-40 ~ +85	20
XB50M00000S408	50.00000	±30	8	±30	-40 ~ +85	80
XB50M00000S410	50.00000	±30	10	±30	-40 ~ +85	80
XB50M00000S412	50.00000	±30	12	±30	-40 ~ +85	80
XB50M00000S416	50.00000	±30	16	±30	-40 ~ +85	80
XB50M00000S418	50.00000	±30	18	±30	-40 ~ +85	80
XB50M00000S420	50.00000	±30	20	±30	-40 ~ +85	80
XB50M00000S430	50.00000	±30	30	±30	-40 ~ +85	80

RELIABILITY - MECHANICAL AND ENVIRONMENTAL ENDURANCE - FOR REFERENCE ONLY

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

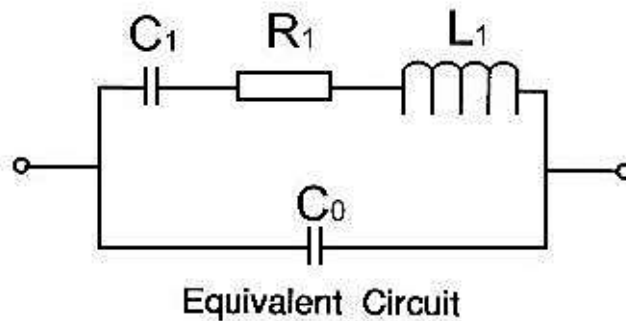
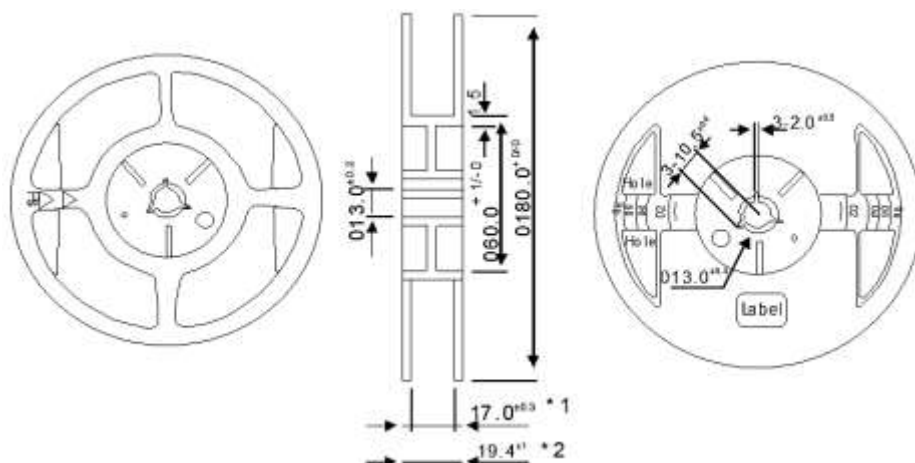


Figure 1 is a schematic diagram of a multi-hole plate specimen. The diagram shows a rectangular plate with four rectangular holes. Dimensions are labeled: B (plate width), D (hole diameter), F (hole spacing), A (hole offset), Q (hole offset), H (hole offset), G (hole offset), w (plate thickness), T (hole offset), and K (hole offset). A dashed line indicates the 'Direction' of loading.

SYMBOL	TOLERANCE	DIMENSION (MM)
A	±0.1	5.4
B	±0.1	7.4
C	±0.2	16
D	±0.1	7.5
E	±0.1	1.75
F	±0.1	8.0
G	±0.1	2.0
H	±0.1	4.0
J	±0.05	1.55
K	±0.1	1.4
Q	+0.1/0	1.6
T	±0.05	0.3



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