

## PART CODE: XB50M0000S410

### **SPECIFICATION SHEET**

SPECIFICATION SHEET NO.	Q0301- XB50M000005410
DATE	March 01, 2023
REVISION	A0
DESCRIPITION	MHz SMD Crystal, Seam Seal, L7.0*W5.0*H1.1mm, 4 Pads, CM75 series 50.0000MHz, Tolerance +/-30ppm, Load Capacitor 10pF, Frequency stability +/-30ppm @Operating Temp. Range -40°C ~+85°C, ESR 80 ohm Max, Reflow Profile Condition 260 °C Max. Tape/Reel, 1000pcs/Reel RoHS/RoHS III compliant
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	TGS CM75 50M0A30-10-30-40-80TLF
PART CODE	XB50M00000S410

VENDOR APPROVE			
Issued/Checked/Approved	Component Mandy Xu Yowy	Cumporte Cum	Low Day Control Jack
DATE: March 01, 2023			

 CUSTOMER APPROVE

 DATE:

 03/01/2023

### 03/01/2023

### www.NextGenComponent.com

### SMD CRYSTAL 7050 TYPE 4 PADS

#### MAIN FEATURE

- SMD Crystal, Seam Seal, L7.0\*W5.0\*H1.1mm, 4 pads
- Low cost, High precision, High frequency stability
- Reflow Profile Condition 260 °C Max.
- Cross more competitors part
- RoHS/RoHS III compliant

#### APPLICATION

- Bluetooth, wireless communication set
- Communication Electronics

#### PART CODE GUIDE

ХВ	50M00000	S	410
1	2	3	4

1) XB: Part family Code for SMD Crystal, Seam Seal, L7.0\*W5.0\*H1.1mm, 4 pads (CM75)

2) 50M00000: Frequency range code for 50.0000MHz

3) S: SMD type, Package Tape/Reel, 1000pcs/Reel

4) 410: Specification code for original part No.: TGS CM75 50M0A30-10-30-40-80TLF







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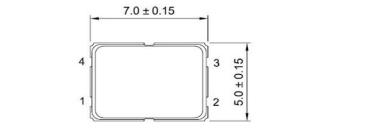
# PART CODE: XB50M00000S410 SMD CRYSTAL 7050 TYPE 4 PADS

#### **DIMENSION (Unit: mm)**

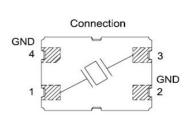
Image for reference

CM75





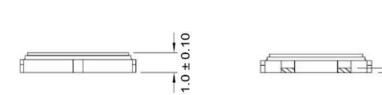




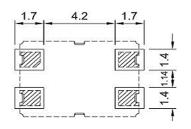
#### Connection

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

0.25







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### SMD CRYSTAL 7050 TYPE 4 PADS

#### **ELECTRICAL PARAMETERS**

Parameter		Part No. Symbol	Units	Value		Condition	
		Symbol		Min.	Typical	Max.	-
Original	Manufacturer	TGS		TGS	Crystals		
Holder T	<sup>-</sup> уре	CM75	SMD Crysta	l, Seam Seal,	L7.0*W5.0*H1.1	mm, 4 pads	
Frequen	cy Range	50M0	MHz		50.0000		
Mode of	f Oscillation	А			AT Fundamenta	al	
Frequen	cy Tolerance	30	ppm	-30		+30	@25°C
Load Ca	pacitance	-10	pF		10		
Stability Operatio	over on Temperance	-30	ppm	-30		+30	
Operatio	on Temperance	-40	°C	-40		+85	
Storage	Temperance		°C	-55		+125	
Equivale Resistan	ent Series ice (ESR)	-80	Ω			80	
Drive Le	vel		μW			300	
Shunt Ca	apacitance (CO)		pF	0		7.0	
Motiona (C1)	al Capacitance		fF		N/A		
DLD2			Ω	N/A			
FLD2			ppm	N/A			
RDL2			Ω	N/A			
SPDB			dB	N/A			
Aging			ppm/year			±3	@1 <sup>st</sup> year
Insulatio	on Resistance		MΩ	500			@100Vdc ±15Vdc
	Package	Т	Tape/Reel				
	RoHS Status	LF	RoHS III compliant				
Others	Add Value		N/A				
	Internal Control Code <mark>*</mark>			N/A			

Note: 1) Original Part Number: TGS CM75 50M0A30-10-30-40-80TLF

2) \* Internal Control Code- 2 letter or digits; Blank: N/A 03/01/2023



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SMD CRYSTAL 7050 TYPE 4 PADS

#### MECHANICAL PERFORMANCE

Item	Condition	Standard
Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change: ≤5ppm Rr as specification
Shake characteristics	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 characteristics	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 characteristics	260±5°C, 3 seconds	90% exhibit tin ok
Humidity characteristics	+40±2°C & 90%~95% R.H. 250 hours	Frequency change: ≤5ppm Rr as specification
Low temperature characteristics	-30 $\pm$ 2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change: ≤5ppm Rr as specification
High temperature characteristics	+85 $\pm$ 2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change: ≤5ppm Rr as specification
Temperature cycling	-30 $\pm$ 3°C/30 $\pm$ 3 min~+85 $\pm$ 2°C/30 $\pm$ 3min, 5 cycles	Frequency change: ≤5ppm Rr as specification

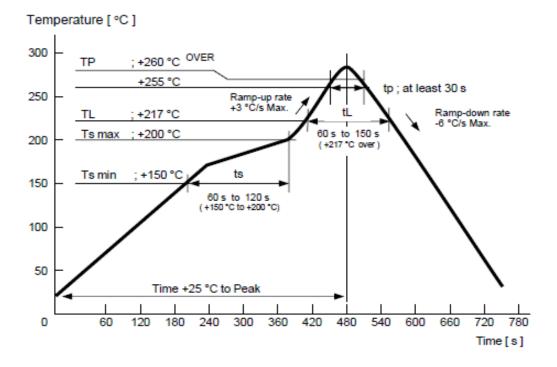
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#### SUGGESTED REFLOW PROFILE (For Reference Only)



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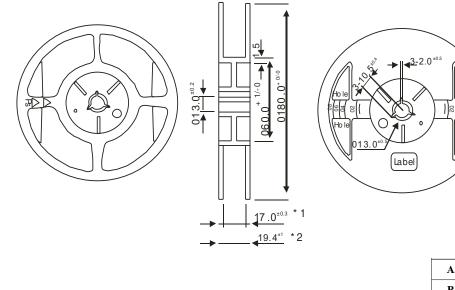
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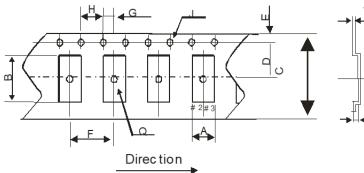


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#### TAPE/REEL (Unit: mm)

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





Α	5.4 <sup>±01</sup>	
В	$7.4^{\pm 0.1}$	
С	16.0 <sup>±0.2</sup>	
D	7.5 <sup>±0.1</sup>	
Е	1.75 <sup>±0.1</sup>	
F	$8.0^{\pm 0.1}$	
G	$2.0^{\pm 0.1}$	
н	4.0 <sup>±0.1</sup>	
J	$1.55^{\pm 0.05}$	
К	$1.4^{\pm 0.1}$	
Q	1.6+0.1/0	
Т	$0.3^{\pm 0.05}$	

Item		Empty Space
Tana Loador	Cover Tape	Min.500mm
Tapa Leader	Empty Pockets	Min.20 pockets
Tape Trailer	Cover Tape	Min.0mm
	Empty Pockets	Min.40mm

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