

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	Q0301- XB11M05920S412
DATE	March 01, 2023
REVISION	A0
DESCRIPITION	MHz SMD Crystal, Seam Seal, L7.0*W5.0*H1.1mm, 4 Pads, CM75 series
	11.0592MHz, Tolerance +/-30ppm, Load Capacitor 12pF,
	Frequency stability +/-30ppm @Operating Temp. Range -40°C ~+85°C,
	ESR 60 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 11M0592A30-12-30-40-60TLF
PART CODE	XB11M05920S412

VENDOR APPROVE

Issued/Checked/Approved





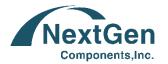


DATE: March 01, 2023

CUSTOMER APPROVE		

DATE:

03/01/2023



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	11M05920	S	412
1	2	3	4

- 1) XB: Part family Code for SMD Crystal, Seam Seal, L7.0*W5.0*H1.1mm, 4 pads (CM75)
- 2) 11M05920: Frequency range code for 11.0592MHz
- 3) S: SMD type, Package Tape/Reel, 1000pcs/Reel
- 4) 412: Specification code for original part No.: TGS CM75 11M0592A30-10-30-40-60TLF

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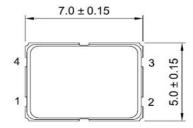
SMD CRYSTAL 7050 TYPE 4 PADS

DIMENSION (Unit: mm)

Image for reference



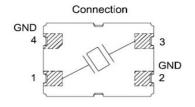
CM75



Marking

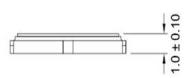
standard

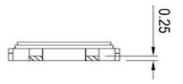
4.6 2.54



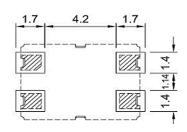
Connection

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





Recommend Pad Layout



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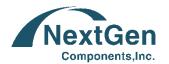
ELECTRICAL PARAMETERS

Parameter		Part No. Symbol	Units	Value		Condition	
		Symbol		Min.	Typical	Max.	
Original	Manufacturer	TGS		TGS	Crystals		
Holder T	уре	CM75	SMD Crysta	l, Seam Seal,	L7.0*W5.0*H1.1	mm, 4 pads	
Frequen	cy Range	11M0592	MHz		11.0592		
Mode of	Oscillation	А		AT Fundamental			
Frequen	cy Tolerance	30	ppm	-30		+30	@25°C
Load Cap	oacitance	-12	pF		12		
Stability Operation	over on Temperance	-30	ppm	-30		+30	
Operation	on Temperance	-40	°C	-40		+85	
Storage '	Temperance		°C	-55		+125	
Equivale Resistan	nt Series ce (ESR)	-60	Ω			60	
Drive Le	vel		μW			300	
Shunt Ca	apacitance (CO)		pF	0		7.0	
Motiona (C1)	Il 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 st year
Insulatio	on Resistance		ΜΩ	500			@100VDC ± 15VDC
	Package	Т		Tape/Reel RoHS III compliant N/A N/A			
	RoHS Status	LF					
Others	Add Value						
	Internal Control Code <mark>*</mark>						

Note: 1) Original Part Number: TGS CM75 11M0592A30-12-30-40-60TLF

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

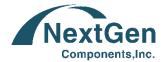
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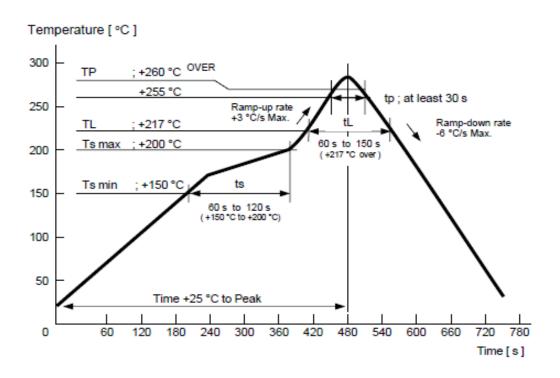
MECHANICAL PERFORMANCE

Item	Condition	Standard
Drop characteristics	Prop characteristics Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	
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)

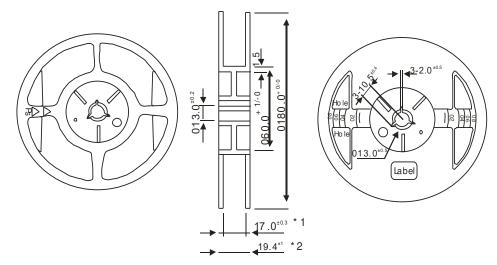


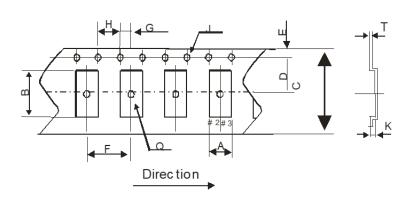
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TAPE/REEL (Unit: mm)

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





5.4 ^{±01}
7.4 ^{±0.1}
16.0 ^{±0.2}
7.5 ^{±0.1}
1.75 ^{±0.1}
8.0 ^{±0.1}
2.0 ^{±0.1}
4.0 ^{±0.1}
1.55 ^{±0.05}
1.4 ^{±0.1}
1.6+0.1/0
0.3 ^{±0.05}

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

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