

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	Q0301- XB7M372800S416
DATE	March 01, 2023
REVISION	A0
DESCRIPITION	MHz SMD Crystal, Seam Seal, L7.0*W5.0*H1.1mm, 4 Pads, CM75 series
	7.37280MHz, Tolerance +/-30ppm, Load Capacitor 16pF,
	Frequency stability +/-30ppm @Operating Temp. Range -40°C ~+85°C,
	ESR 110 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 7M3728A30-16-30-40-110TLF
PART CODE	XB7M372800S416

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	7M372800	S	416
1	2	3	4

- 1) XB: Part family Code for SMD Crystal, Seam Seal, L7.0*W5.0*H1.1mm, 4 pads (CM75)
- 2) 7M372800: Frequency range code for 7.37280MHz
- 3) S: SMD type, Package Tape/Reel, 1000pcs/Reel
- 4) 416: Specification code for original part No.: TGS CM75 7M3728A30-16-30-40-110TLF

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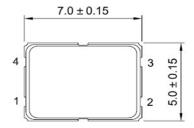
SMD CRYSTAL 7050 TYPE 4 PADS

DIMENSION (Unit: mm)

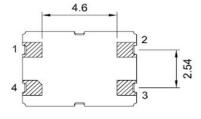
Image for reference

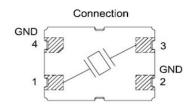


CM75



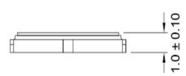
Marking standard

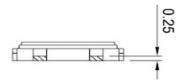




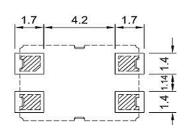
Connection

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





Recommend Pad Layout





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ELECTRICAL PARAMETERS

Parameter		Part No. Symbol	Units	Value			Condition
		37111001		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	7M3728	MHz		7.37280		
Mode of	Oscillation	А			AT Fundamenta	al	
Frequen	cy Tolerance	30	ppm	-30		+30	@25°C
Load Cap	pacitance	-16	pF		16		
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)	-110	Ω			110	
Drive Le	vel		μW			300	
Shunt Ca	apacitance (CO)		pF	0 7.0		7.0	
Motiona (C1)	l 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 T		Тар	pe/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 7M3728A30-16-30-40-110TLF

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



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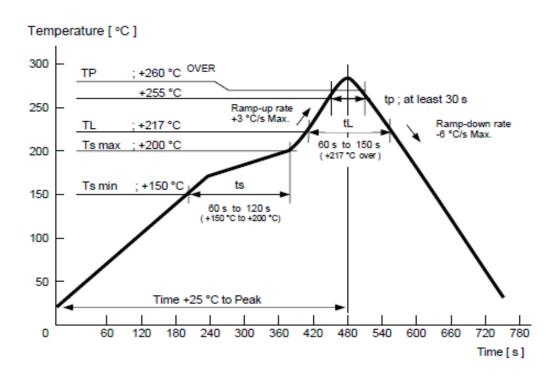
MECHANICAL PERFORMANCE

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)

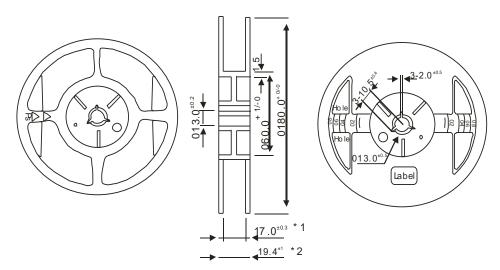


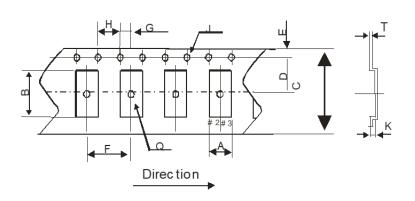
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SMD CRYSTAL 7050 TYPE 4 PADS

TAPE/REEL (Unit: mm)

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





A	5.4 ^{±01}	
В	7.4 ^{±0.1}	
C	16.0 ^{±0.2}	
D	7.5 ^{±0.1}	
E	1.75 ^{±0.1}	
F	8.0 ^{±0.1}	
G	2.0 ^{±0.1}	
Н	4.0 ^{±0.1}	
J	1.55 ^{±0.05}	
K	1.4 ^{±0.1}	
Q	1.6+0.1/0	
T	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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