



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

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Product Specifications Approval Sheet

Product Description: DIP 6.0x2.0 32.768KHz Crystal Unit

TST Part No.: TZ2426A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Ginger Huang *Ginger Huang*

Approved by: _____ Kelly Huang *Kelly Huang*

Date: _____ 01/02/2012

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



TAI-SAW TECHNOLOGY CO., LTD.
DIP 6.0x2.0 32.768KHz Crystal Unit

MODEL NO.: TZ2426A

REV. NO.: 1.0

Revise:

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Reviser
1	N/A	Initial release	01/02/12'	N/A	Ginger Huang



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Dip 6.0x2.0 32.768KHz Crystal Unit

MODEL NO.: TZ2426A

REV. NO.: 1.0

Features:

- Dip Type Package
- Excellent Reliability Performance

RoHS Compliant
Lead free
Lead-free soldering

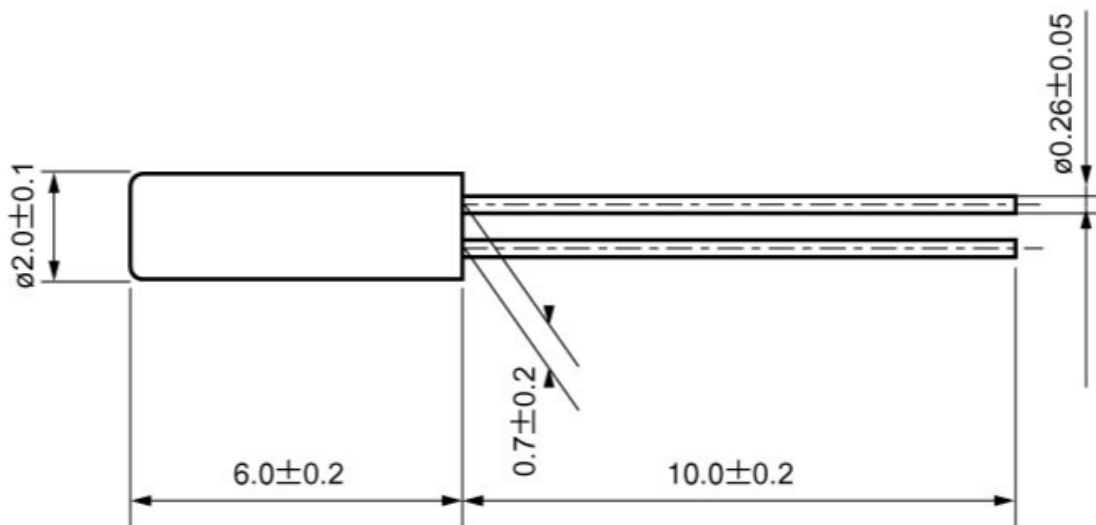
Description and Applications:

Dip type 6.0x2.0 crystal unit for use in wireless telecommunications devices.

Electrical Specifications:

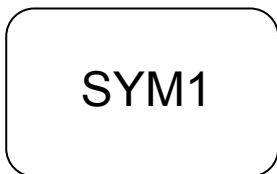
TZ2426A	Specification
Nominal Frequency	32.768000KHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +70°C
Turnover temperature	25+/-5 °C
Parabolic curvature constant	-0.034 +/- 0.006 ppm/per. °C ²
Frequency Make Tolerance (FL)	+/-5 ppm @ 25°C
Equivalent Series Resistance (ESR)	35K Ω max
Nominal Drive Level	1.0 uW
Shunt Capacitance (Co)	1.35pF Typ.
Load Capacitance (CL)	12.5 pF
Aging	+/-1.0 ppm/year @25°C
Insulation Resistance	500 MΩ min./DC 100V+/-15V
Marking	Inerasable marking

Mechanical Dimensions (mm):



Marking

Line1 : S (Manufacture's ID Code) + Y (Year code : 9 for 2009) + M (Month Code)



Month Code Table:

Month	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Seo	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	X	Y	Z

Reliability Specifications

Test name	Test process / method	Reference standard
Mechanical characteristics		
resistance to Soldering heat (IR reflow)	Temp./ Duration : 260°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	MIL-STD 202F method 201A
Mechanical Shock	directions : 3 impacts per axis Acceleration : 3000g's, +20/-0 % Duration : 0.3 ms (total 18 shocks) Waveform : Half-sine	MIL-STD 202F method 213C
Solderability	Solder Temperature:265±5°C Duration time: 5±0.5 seconds.	MIL-STD 883G method 2003
Environmental characteristics		
Thermal Shock	Heat cycle conditions -55 °C (30min) ↔ 125 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.7
Humidity test	Temperature : 70 ± 2 °C Relative humidity : 90~95% Duration : 96 hours	MIL-STD 202F method 103B
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 168 hours	MIL-STD 883G method 1008.2 condition C
PCT test	Pressure: 2.06kg/cm ² (2.03*10 ⁵ pa) Temperature : 121 ± 2 °C Relative humidity : 100% Duration : 24 hours	EIAJED-4701-3 B-123A