



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: Crystal Unit Cylinder Dip 24MHz

TST Part No.: TZ2121A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Ginger Huang *Ginger Huang*

Approved by: _____ Kelly Huang *Kelly Huang*

Date: _____ 12/03/2010

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.



REV. NO.: 2.0

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Reviser
1	N/A	Initial release	09/09/10'	N/A	Ginger Huang
2	P4	Marking Change	12/3/10'	1.0	Ginger Huang



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Cylinder DIP Type 24MHz Crystal Unit

MODEL NO.: TZ2121A

REV. NO.: 2.0

Features:

- Good Frequency Perturbation and Stability over temperature

RoHS Compliant
Lead free
Lead-free soldering

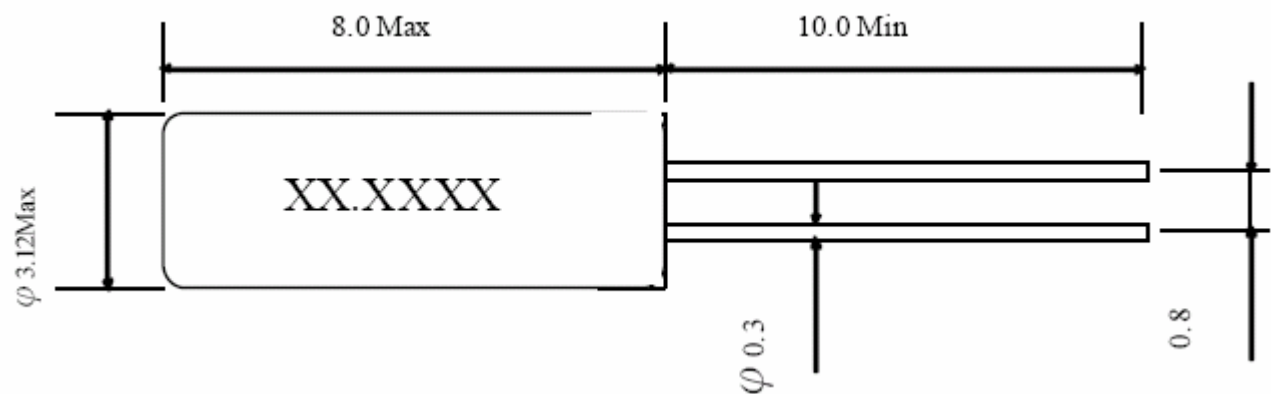
Description and Applications:

Cylinder dip type crystal unit for use in wireless telecommunications devices

Electrical Specifications:

TZ2121A	Specification
Nominal Frequency	24.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C~+85°C
Operating Temperature Range	-20°C~+70°C
Frequency Stability over Operating Temperature Range	+/-50 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/-50 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	50 Ω max.
Nominal Drive Level	100 μ W
Shunt Capacitance (Co)	7.0 pF MAX
Load Capacitance (CL)	20.0 pF
Aging	+/-5.0 ppm/year
Insulation Resistance	500 M Ω min./DC 100V
Marking	Laser marking

Mechanical Dimensions (mm):



Marking:

Line 1: Frequency (24.000)

24.000