

TAI-SAW TECHNOLOGY CO., LTD.

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

TST Part No.: TP0026A Customer Part No.: Customer signature required Company: Division: Approved by : Checked by: Ginger Huang Gitger Huang Approved by: Kelly Huang	Product Description: OCXO	SMD 14.1mmx9.1mm	20MHz
Customer signature required Company: Division: Approved by : Date: Checked by: Ginger Huang Ginger Huang Approved by: Kelly Huang	TST Part No.: TP0026A		
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Division:	Customer signature required		
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Checked by: Ginger Huang Ginger Huang Approved by: Kelly Huang	Date:		· .
Approved by: Kelly Huang			per Huang
Date: 11/15/2011		Kelly Huang	gerry "
	Date:	11/15/2011	

- 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.
- 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. 14.1x9.1 20MHz OCXO

MODEL NO .: TP0026A **REV. NO.: 1.0**

Revise:

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Reviser
1	N/A	Initial release	11/15/11'	N/A	Ginger Huang



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14.1x9.1 20MHz OCXO

MODEL NO.: TP0026A **REV. NO: 1.0**

Characteristics	Values	Unit	Note
Nominal Frequency	20	MHz	Tol ±500 ppb max @ 25°C ±2°C, warmup 30 ±5 minutes within 90 days after shipment

Temperature Range

Characteristics	Min.	Nom.	Max.	Unit	Note
Operating G1	-20		70	°C	
Storage	-40		85	°C	

Power - Consumption

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Characteristics	Min.	Nom.	Max.	Unit	Note
Power Supply	3.14	3.3	3.47	V	Vcc ±5%
Max values at steady state			400	mA	1.3W at 25°C
Max values during Warm-up			900	mA	3W, heating time < 3 min

Output Signal LVCMOS

Characteristic	S	Min.	Nom.	Max.	Unit	Note
Lovel	VOH	2.4			Volt	
Level	VOL			0.4	Volt	
Rise/Fall time	;			6	ns	
Duty cycle		45		55	%	
Non-harmonics S	Spur			-60	dBc	
Load			15		pF	

Frequency Stability

Characteristics	Min.	Nom.	Max.	Unit	Note
VS Temperature Range G1			50	±ppb	Refer to freq at 25°C
VS Power Supply variation			10	±ppb	Vcc ±5% Static
VS Load variation			10	±ppb	Load ±5%

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Characteristics	Values		Unit	Note	
Medium/Long Term Stability	1 day	1 year	10years	Offic	After continuous operating for 1 month at 25°C
Mediani/Long Term Stability	NA	2000	5000	±ppb	After continuous operating for 1 month at 25 C
Warm Up	2 mn		100	±ppb	Refer to 1H power on @ 25°C

Phase Noise

Characteristics			Valu		Note			
Static Conditions	1 Hz	10 Hz	100Hz	1 KHz	10 KHz	100KHz	Unit	
		-85	-110	-130	-145	-145	dBc/Hz	

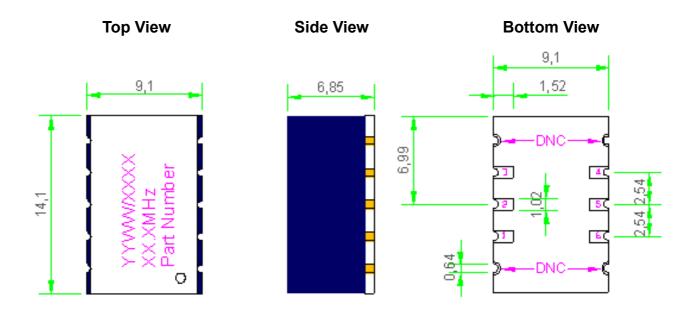
Mechanical Conditions

Characteristics		Conditions
Shocks		MIL-STD-202, Method 213, Test
(Non-operating)		Condition J (30 g, 11 ms half-sine)
Sine Vibrations		MIL-STD-202, Method 201 (0.06"
(Non-operating)	1	Total p-p, 10 to 55 Hz)

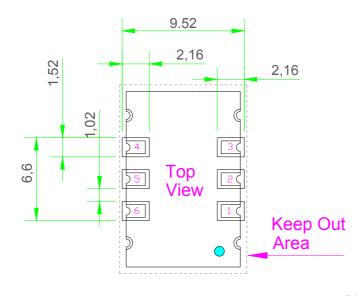
Package - Pin Out

Package Ref.	S1	drawing Unit: mm
Maximum package height	6.85mm	
Pin Out	Pad 1: N/C or Vctrl Pad 2: N/C Pad 3: Ground Pad 4: output Pad 5: N/C Pad 6: Vcc	

Mechanical drawing Package Ref. S1



Suggested Pad Layout



DNC: Do Not Connect