

ECN/PCN No.: 3739

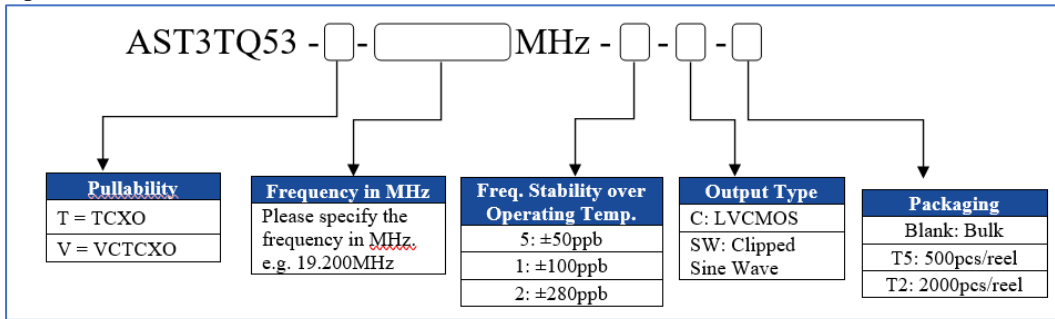
For Manufacturer		
Product Description: Precision SMD TCXO/VCTCXO	Abracon Part Number / Part Series: AST3TQ53	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
Affected Revision: Initial Release	New Revision: A	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

Prior to Change:

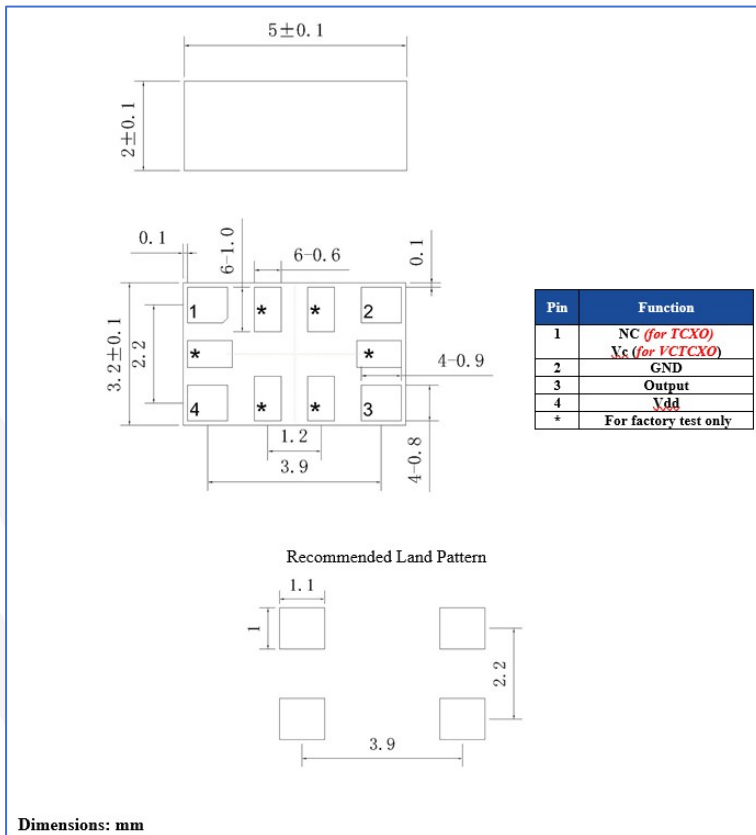
Key Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Supply Current (Icc)			6.0	mA	No load
Linearity			±1	%	

Options and Part Identification

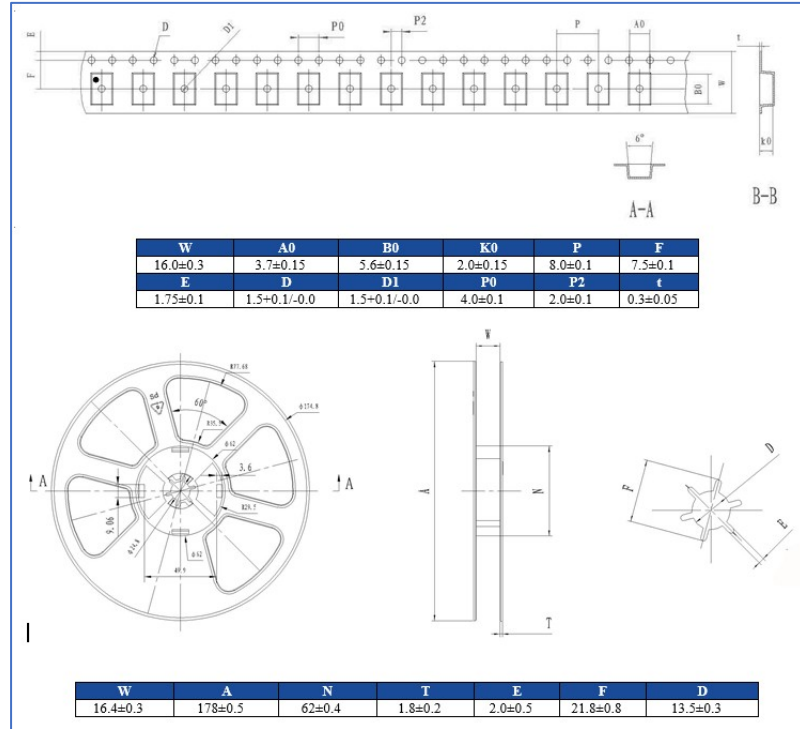


Mechanical Dimensions



Packaging

T5: 500pcs/reel; T2: 2000pcs/reel

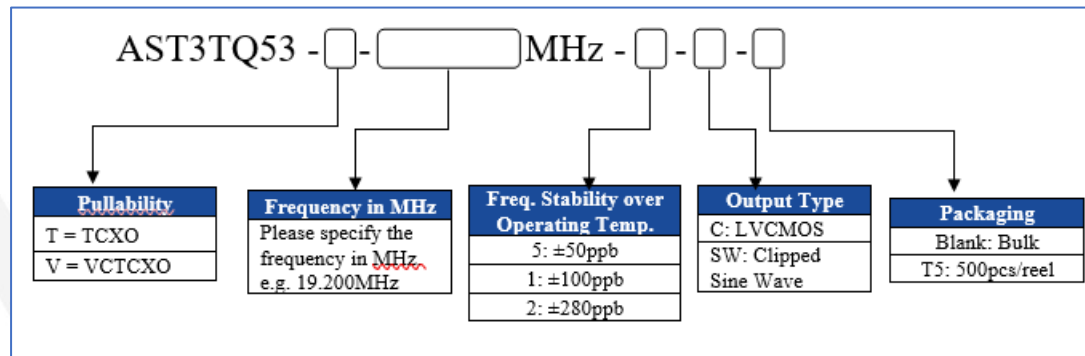


After Change:

Key Electrical Specifications

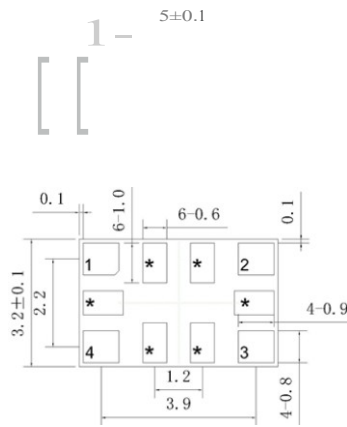
Parameters	Minimum	Typical	Maximum	Units	Notes
Supply Current (Icc)			10.0	mA	No load
Linearity			±10	%	

Options and Part Identification



Mechanical Dimensions

Effective before 02/10/2021:



Pin	Function
1	NC (for TCXO) Vc (for VTCXO)
2	GND
3	Output
4	Vdd
*	For factory test only

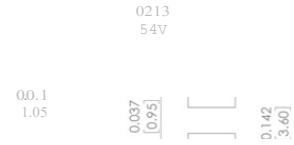
Recommended Land Pattern



Effective after 02/11/2021:



Recommended Land Pattern



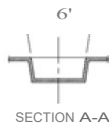
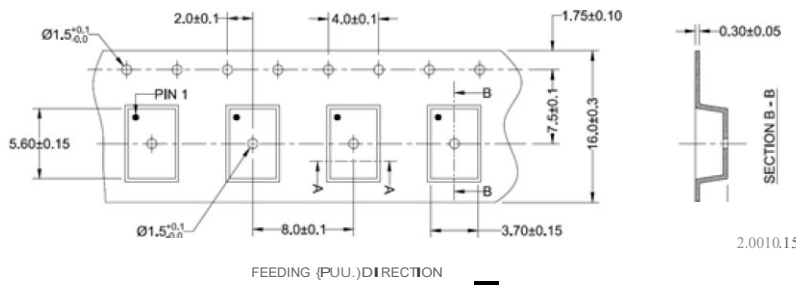
0059
*SO

Pin	Function
1	NC (for TCXO) Vc (for VTCXO)
2	GND
3	Output
4	Vdd
*	For factory test only

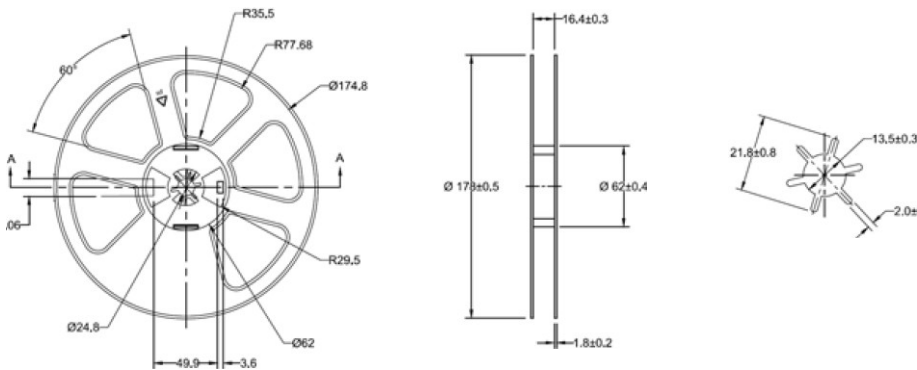
Dimensions: inches [mm]

Packaging

TS: 500pcs/reel



Unit:mm



Dimensions:mm

Cause/Reason for Change:

- Abracon introduced the next generation integrated circuit to ensure product availability and to be in a better position to meet long term customer demand.
- Updated electrical specifications to reflect the product produced with the new integrated circuit.
- Product series frequency range widened to meet market demand.
- New landing pattern implemented to accommodate reduced device pad count.

Change Plan

Effective Date:

02/10/2021

Additional Remarks:

N/A

Change Declaration:

- This statement addresses both the electrical and mechanical changes of the product series.
- The electrical changes outlined in this ECN impact the electrical performance of this device. The current consumption and linearity limits are increased.
- The mechanical changes outlined in this ECN impact the solder pad layout of this device. To accommodate the new Rev. A version of this device, a modification of the solder pad layout on the customers PCB is required.

Issued Date:

02/10/2021

Approval:

Last Time Buy (if applicable):

N/A

Alternate Part Number / Part Series:

N/A

Additional Approval:

N/A

Additional Approval:

N/A

Additional Approval:

N/A

Qualification Status:
 Approved Not accepted

Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.
Customer Part Number:
Customer Project:
Company Name:
Company Representative:
Representative Signature:
Customer Remarks:

AST3TQ53-T-10.000MHz-1-C
AST3TQ53-T-10.000MHz-1-C-T2
AST3TQ53-T-10.000MHz-1-C-T5
AST3TQ53-T-10.000MHz-1-SW
AST3TQ53-T-10.000MHz-1-SW-T2
AST3TQ53-T-10.000MHz-1-SW-T5
AST3TQ53-T-10.000MHz-2-C
AST3TQ53-T-10.000MHz-2-C-T2
AST3TQ53-T-10.000MHz-2-C-T5
AST3TQ53-T-10.000MHz-2-SW
AST3TQ53-T-10.000MHz-2-SW-T2
AST3TQ53-T-10.000MHz-2-SW-T5
AST3TQ53-T-10.000MHz-5-C
AST3TQ53-T-10.000MHz-5-C-T2
AST3TQ53-T-10.000MHz-5-C-T5
AST3TQ53-T-10.000MHz-5-SW
AST3TQ53-T-10.000MHz-5-SW-T2
AST3TQ53-T-10.000MHz-5-SW-T5
AST3TQ53-T-12.800MHz-1-C
AST3TQ53-T-12.800MHz-1-C-T2
AST3TQ53-T-12.800MHz-1-C-T5
AST3TQ53-T-12.800MHz-1-SW
AST3TQ53-T-12.800MHz-1-SW-T2
AST3TQ53-T-12.800MHz-1-SW-T5
AST3TQ53-T-12.800MHz-2-C
AST3TQ53-T-12.800MHz-2-C-T2
AST3TQ53-T-12.800MHz-2-C-T5
AST3TQ53-T-12.800MHz-2-SW
AST3TQ53-T-12.800MHz-2-SW-T2
AST3TQ53-T-12.800MHz-2-SW-T5
AST3TQ53-T-12.800MHz-5-C
AST3TQ53-T-12.800MHz-5-C-T2
AST3TQ53-T-12.800MHz-5-C-T5
AST3TQ53-T-12.800MHz-5-SW
AST3TQ53-T-12.800MHz-5-SW-T2
AST3TQ53-T-12.800MHz-5-SW-T5
AST3TQ53-T-16.384MHT-2-C-T5
AST3TQ53-T-16.384MHT-2-SW
AST3TQ53-T-16.384MHz-1-C
AST3TQ53-T-16.384MHz-1-C-T2
AST3TQ53-T-16.384MHz-1-C-T5
AST3TQ53-T-16.384MHz-1-SW
AST3TQ53-T-16.384MHz-1-SW-T2
AST3TQ53-T-16.384MHz-1-SW-T5
AST3TQ53-T-16.384MHz-2-C
AST3TQ53-T-16.384MHz-2-C-T2
AST3TQ53-T-16.384MHz-2-SW-T2
AST3TQ53-T-16.384MHz-2-SW-T5
AST3TQ53-T-16.384MHz-5-SW
AST3TQ53-T-16.384MHz-5-SW-T2
AST3TQ53-T-16.384MHz-5-SW-T5
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AST3TQ53-T-19.200MHz-2-C-T2
AST3TQ53-T-19.200MHz-2-C-T5
AST3TQ53-T-19.200MHz-5-SW
AST3TQ53-T-19.200MHz-5-SW-T5
AST3TQ53-T-20.000MHz-1-SW
AST3TQ53-T-20.000MHz-2-SW
AST3TQ53-T-20.000MHz-5-C
AST3TQ53-T-24.576MHz-5-C

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AST3TQ53-T-25.000MHZ-1-C-T5
AST3TQ53-T-25.000MHZ-2-C
AST3TQ53-T-25.000MHZ-2-C-T5
AST3TQ53-T-25.000MHz-2-SW
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AST3TQ53-T-29.4912MHZ-2-C-T2
AST3TQ53-T-29.4912MHZ-2-C-T5
AST3TQ53-T-29.94912MHZ-2-SW
AST3TQ53-T-29.94912MHZ-2-SW-T5
AST3TQ53-T-30.720MHZ-2-SW
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AST3TQ53-T-40.000MHz-5-C
AST3TQ53-T-40.000MHz-5-SW
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AST3TQ53-V-10.000MHz-1-C-T2
AST3TQ53-V-10.000MHz-1-C-T5
AST3TQ53-V-10.000MHz-1-SW
AST3TQ53-V-10.000MHz-1-SW-T2
AST3TQ53-V-10.000MHz-1-SW-T5
AST3TQ53-V-10.000MHz-2-C
AST3TQ53-V-10.000MHz-2-C-T2
AST3TQ53-V-10.000MHz-2-C-T5
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AST3TQ53-V-10.000MHz-2-SW-T2
AST3TQ53-V-10.000MHz-2-SW-T5
AST3TQ53-V-10.000MHz-5-C
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AST3TQ53-V-10.000MHz-5-SW
AST3TQ53-V-10.000MHz-5-SW-T2
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AST3TQ53-V-12.800MHz-1-C
AST3TQ53-V-12.800MHz-1-C-T2
AST3TQ53-V-12.800MHz-1-C-T5
AST3TQ53-V-12.800MHz-1-SW
AST3TQ53-V-12.800MHz-1-SW-T2
AST3TQ53-V-12.800MHz-1-SW-T5
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AST3TQ53-V-16.384MHz-1-C
AST3TQ53-V-16.384MHz-1-C-T2
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AST3TQ53-V-16.384MHz-2-C
AST3TQ53-V-16.384MHz-2-C-T2
AST3TQ53-V-16.384MHz-2-C-T5
AST3TQ53-V-16.384MHz-2-SW
AST3TQ53-V-16.384MHz-2-SW-T2

AST3TQ53-V-16.384MHz-2-SW-T5
AST3TQ53-V-19.200MHZ-1-C
AST3TQ53-V-20.000MHZ-1-C
AST3TQ53-V-20.000MHz-2-C
AST3TQ53-V-20.000MHz-5-C
AST3TQ53-V-24.576MHZ-2-C
AST3TQ53-V-24.576MHz-5-C
AST3TQ53-V-30.720MHZ-1-C
AST3TQ53-V-40.000MHz-1-C
AST3TQ53-V-40.000MHz-2-SW
AST3TQ53-V-40.000MHZ-5-C-T5
AST3TQ53-V-40.000MHZ-5-SW