Engineering/Process Change Notice

ECN/PCN No.: 3466

For Manufacturer			
Product Description: Precision SMD TCXO		**Abracon Part Number / Part Series:** AST3TQ	☒Series ☐Part Number
Affected Revision: C	**New Revision:** D	**Application**	☐Safety ☒Non-Safety

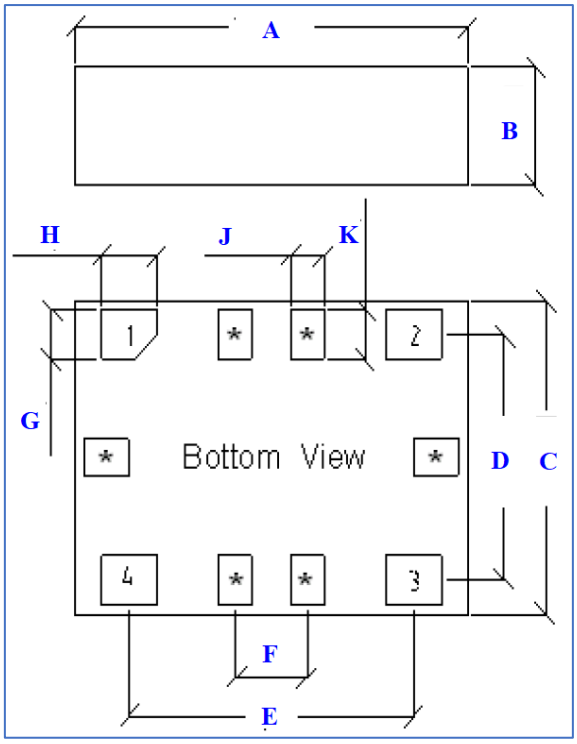
Prior to Change:

Electrical

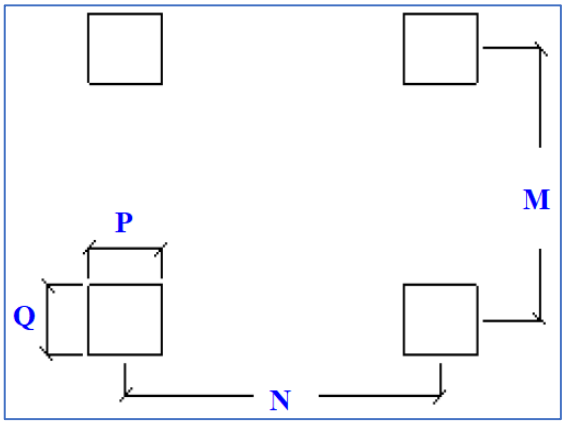
1. Supply Current (Icc) (into 15pF load) =
   - @ 10MHz carrier = 4.0 mA (max), 3.0 mA (typical)
   - @ 40MHz carrier = 7.0 mA (max), 5.5 mA (typical)

Mechanical

1. Mechanical Dimensions & Recommended Land Pattern



Letter	Dimension (mm)
A	7.0±0.1
B	1.9±0.1
C	5.0±0.1
D	3.90
E	5.08
F	1.27
G	4-0.8
H	4-1.0
J	6-0.6
K	6-0.8
M	3.90
N	5.08
P	1.00
Q	1.20



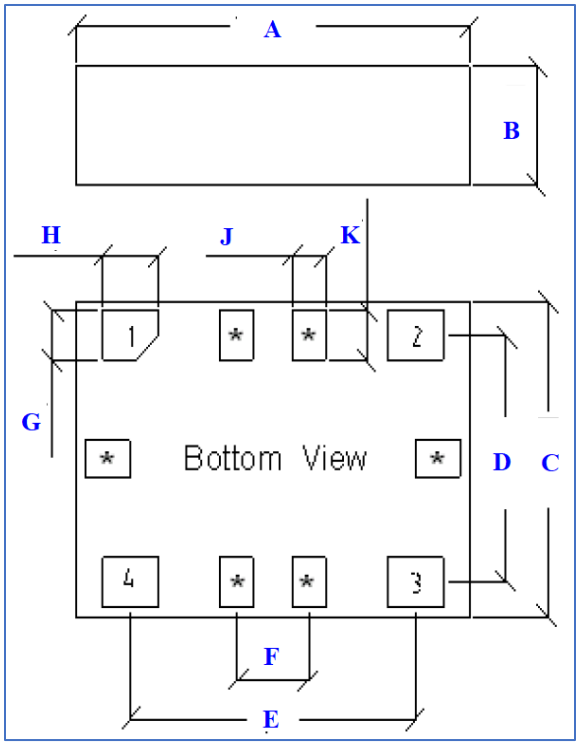
After Change:

Electrical

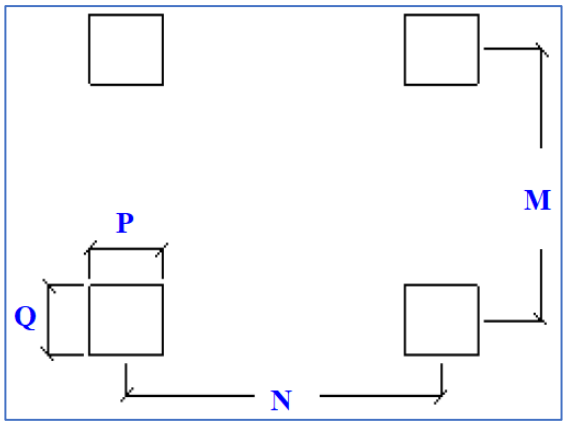
1. Supply Current (Icc) (into 15pF load) =
   - @ 10MHz carrier = 8.5 mA (max), 7.8 mA (typical)
   - @16.384MHz carrier = 9.5 mA (max), 8.7 mA (typical)
   - @51.2MHz carrier= 14.5 mA (max), 13.7 mA (typical)

Mechanical

1. Mechanical Dimensions & Recommended Land Pattern



Letter	Dimension (mm)
A	7.1±0.2
B	1.9±0.2
C	5.0±0.2
D	3.90
E	5.08
F	1.27
G	1.00
H	1.50
J	0.60
K	1.00
M	3.90
N	5.08
P	4-1.2
Q	4-1.0



Cause/Reason for Change:

Electrical

- Standard review and upgrade of Precision SMD VCTCXO product series AST3TQ.
- The series is now offered at a wider frequency range and select frequencies have improved phase noise performance. In effect, the max current consumption increased by approximately 3mA.

Mechanical

- New landing pattern implemented to increase ease of soldering.

Change Plan	Effective Date: 9/26/2019	Additional Remarks: All orders placed after 9/26/2019 will exhibit the part changes reflected in this ECN.

Change Declaration:

Electrical

- The electrical changes to the product series impact the electrical performance of the part. The current consumption increased.

Mechanical

- The mechanical changes do not impact the mechanical performance of the part as both the previous & new recommended landing patterns can be utilized for the new package. The new landing pattern was implemented to increase ease of soldering, but it accommodates both packages.

Issued Date:	Issued By:	Issued Department:
1/16/2020	Brooke Cushman	Engineering
Approval: Syed Raza Engineering VP	**Approval:** Reuben Quintanilla Quality Manager	**Approval:** Ying Huang Purchasing Director

For Abracon EOL only

Last Time Buy (if applicable):	Alternate Part Number / Part Series:	
N/A	N/A	
Additional Approval: N/A	**Additional Approval:** N/A	**Additional Approval:** N/A

Customer Approval (If Applicable)

Qualification Status:

☐ Approved

☐ Not accepted

Note: It is considered approved if there is no feedback from customer 1 month after ECN/PCN is released.

Customer Part Number:	Customer Project:	
Company Name:	**Company Representative:**	**Representative Signature:**
Customer Remarks:		