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## PRODUCT/ PROCESS CHANGE NOTICE

**Number:** 1813-1  
**Date:** 12/13/18  
**From:** Ken Olp  
**ECO#:** 10930  
**ECO Ref.:** (Class: 3 Notification)

**Effective Date:** 12/14/18

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**Change Description:** 1) Component (quartz crystal) size change. 2) Addition of a ceramic “adapter” substrate to accommodate the smaller crystal footprint. 3) Date code marking format changes to accommodate the smaller crystal.

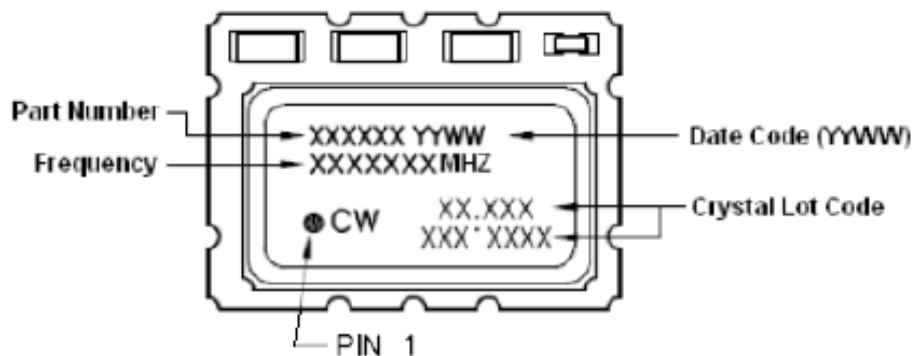
**Change Category:** Change in Existing Product Design/Component Parts

**Reason for Change:** These changes are for enhanced component availability and device manufacturability.

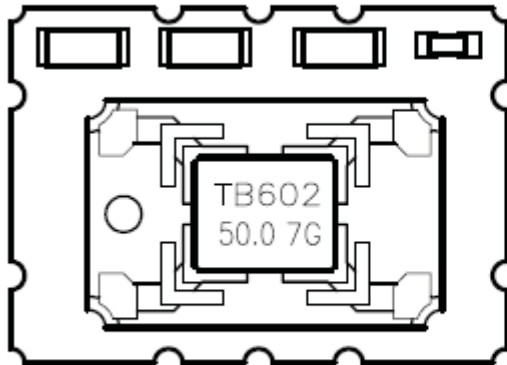
**Products Affected:** TB604-050.0M

**Effect on Product Performance:** Electrical performance of the part improves with regard to phase noise performance. Due to the smaller area available for part number and date code marking, the date code format will change from a 4-character (YYWW) format to a 2-character (YM) format.

Old Configuration showing larger crystal and 4-character (YYWW) date code format:



New configuration showing smaller crystal and 2-character (YM) date code format:



**LASER, 2 CHARACTER DATE CODE**

<u>Y = Year</u>	<u>M = MONTH</u>
7 = 2017	A = JAN
8 = 2018	B = FEB
9 = 2019	C = MAR
0 = 2020	D = APR
1 = 2021	E = MAY
	F = JUN
	G = JUL
	H = AUG
	J = SEP
	K = OCT
	M = NOV
	N = DEC

**Change Impact:** Product part number will remain the same.

**CHANGEOVER PROCESS:** This change will be implemented on our next build and shipment of this part. The exact date code of the new build is not known yet.

**Test SAMPLES Available:**  Yes  No

**Test DATA Available:**  Yes  No

**CUSTOMER RESPONSE**

This PCN requires customer notification only. Please use this form if necessary to respond and direct to the attention of the contact person at Connor-Winfield Corporation.

If Unacceptable, Explain:

Customer Contact:

Telephone:

Email

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