

**ABRACON, LLC
ENGINEERING/PROCESS CHANGE NOTIFICATION FORM**

ABRACON ENGINEERING ORIGINATOR:

IMPLEMENTATION DATE: 05/14/2018

Associate Engineer

SCD/DRAWING AFFECTED:

[ABLS3 Series](#)
[HC49/US \(AT49\) LOW PROFILE SMD](#)
[MICROPROCESSOR CRYSTAL](#)

NOTIFICATION DATE:

05/14/2018

REV: K

NEW REV: L

EFFECTIVITY DATE: 05/14/2018

ECO# 3303

REASON FOR CHANGE:

Electrical specification and packaging adjustments.

DETAILS OF SPECIFICATION CHANGE:

APPLICATION INFORMATION

Electrical Specifications

1) Removed frequencies from offering:

Rev K (previous):

-Frequency Range: 3.579545MHz – 70.00000MHz

Rev L (revised):

-Frequency Range: 6.00000MHz – 70.00000MHz

**-Frequencies Removed from Abracon's offering:
3.579545MHz – 5.999999MHz**

2) Removed operating temperature range options from offering:

Rev K (previous):

-Included below operating temp range options:

A: -10°C ~ +60°C

B: -20°C ~ +70°C

C: -30°C ~ +70°C

N: -30°C ~ +85°C

D: -40°C ~ +85°C

J: -40°C ~ +105°C

K: -40°C ~ +125°C

L: -55°C ~ +125°C

Safety

Non Safety

Application:

(Check one)

DISPOSITION OF CURRENT STOCK

Scrap

Transfer to: _____

Use as is

Return to vendor

Rev L (revised):

-Includes below operating temp range options:

-Options "J, K, & L" have been removed from Abracon's offering:

A: -10°C ~ +60°C

B: -20°C ~ +70°C

C: -30°C ~ +70°C

N: -30°C ~ +85°C

D: -40°C ~ +85°C

~~**J: -40°C ~ +105°C**~~

~~**K: -40°C ~ +125°C**~~

~~**L: -55°C ~ +125°C**~~

Packaging

1) Removed height option:

Rev K (previous):

-Included below 2 statements regarding height:

- 2.5mm max for frequency 6MHz or higher
- 2.6mm max for frequency lower than 6MHz

Rev L (revised):

-Removed both statements above. Moving forward, the height will always be 2.5mm max.

Recommended Alternative

Suggested replacements for ABL3 Series (includes options below 6.000MHz at all operating temp. ranges up to -55°C ~ +125°C):

- **Abracon ABL2 Series**
- Difference between ABL2 series compared to ABL3 series: Height
 - ABL3 Rev K (previous) height:
 - **Below 6MHz: 2.6mm max.**
 - **Above 6MHz: 2.5mm max.**
 - ABL2 height:
 - **All frequencies: 3.3mm max.**
 - **ABL2 (recommended replacement) has increased height specification compared to ABL3 series: 3.3mm > 2.6mm and/or 2.5mm**

ABRACON INTERNAL APPROVAL:

APPROVAL (PRES) _____ DATE **05/14/2018** _____

GLOBAL QUOTING/PRICING MGR _____ DATE **05/14/2018** _____

ENGINEERING VP _____ DATE **05/14/2018** _____

PURCHASING MGR _____ DATE **05/14/2018** _____

SALES VP _____ DATE **05/14/2018** _____

QUALITY & PROCESS IMPROVEMENT MGR: _____ DATE **05/14/2018** _____

CUSTOMER APPROVAL (If Applicable)

ENGINEERING: NAME: _____ TITLE: _____ DATE: _____

BUYER/PURCHASING: NAME: _____ TITLE: _____ DATE: _____