

ENGINEERING PRACTICE STUDY

TITLE: Concerning MIL-PRF-28750/9 changing FIGURE 1.
Outline drawings and dimensions. Ltr C dimensional range.

16 December 2020

STUDY PROJECT (SEE ATTACHMENT 1)

FINAL REPORT

Study Conducted by DLA Land and Maritime

Project Number: 5945-2020-067

Prepared by:

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ATTACH 1

I. OBJECTIVES: This engineering practice study is being conducted to determine the acceptability of changing FIGURE 1. Outline drawings and dimensions. Ltr C dimensional range to reflect the manufacturing capability of a QPL manufacturer.

II. BACKGROUND: At this time, a QPL manufacture is producing material that does not meet the existing requirement of FIGURE 1. Outline drawings and dimensions. Ltr C ; .820 - .840 inches/ 20.83-21.34 mm . In order to prevent a sole source for M28750/09-001Y, and a source elimination for M28750/9-001W dimensional updates are in question. The document may be updated to change Ltr C requirements FROM .820 - .840 inches/ 20.83-21.34 mm TO .770 - .840 inches/ 19.56 – 21.34 mm.

Questions needing answers are:

1. Does lowering, and increasing, the range for Ltr C impact other dimensional measurements?
2. How does lowering, and increasing, the dimensional requirement for Ltr C impact the relay's form, fit, or function?

III. RESULTS: The document was reviewed and a DoD position determined. A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response concurred with the proposal to change FIGURE 1. Outline drawings and dimensions. Ltr C ; .820 - .840 inches/ 20.83-21.34 mm . The document shall be updated to change Ltr C requirements FROM .820 - .840 inches/ 20.83-21.34 mm TO .770 - .840 inches/ 19.56 – 21.34 mm. Changing the dimensional requirements has not been reported as negatively impacting the relay's function.

IV. CONCLUSIONS: It was determined that DLA Land and Maritime adopt the proposal to change FIGURE 1. Outline drawings and dimensions. Ltr C ; FROM .820 - .840 inches/ 20.83-21.34 mm TO .770 - .840 inches/ 19.56 – 21.34 mm.

V. RECOMMENDATIONS: The document has concurrence to change FIGURE 1. Outline drawings and dimensions. Ltr C ; .820 - .840 inches/ 20.83-21.34 mm to change Ltr C requirements FROM .820 - .840 inches/ 20.83-21.34 mm TO .770 - .840 inches/ 19.56 – 21.34 mm.

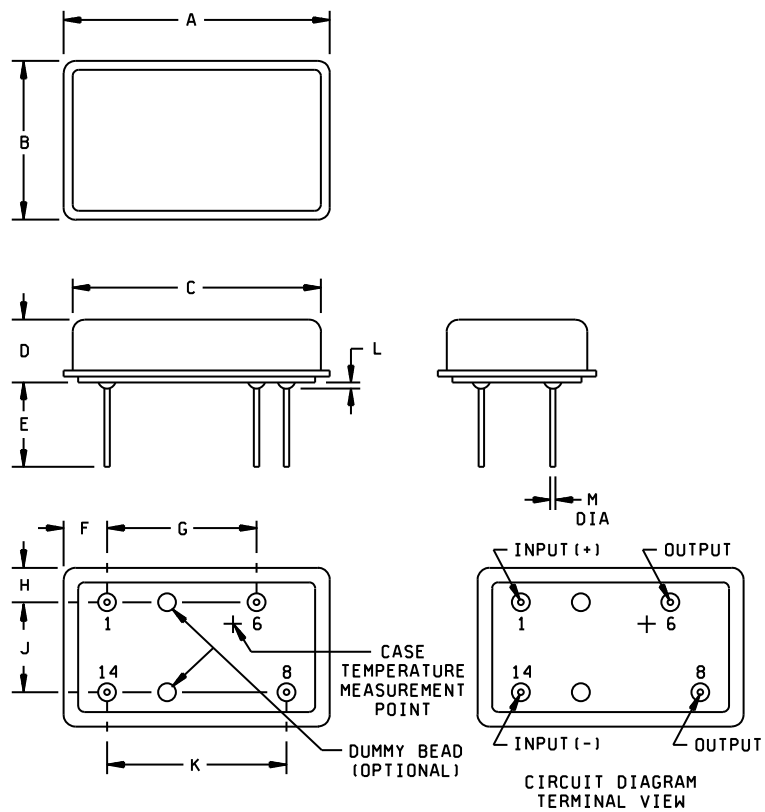


FIGURE 1. Outline drawing and dimensions.

Ltr	Inches		mm	
	Min	Max	Min	Max
A	---	.890	---	22.61
B	---	.530	---	13.46
C	.820	.840	20.83	21.34
D	---	.190	---	4.83
E	.250	.290	6.35	7.37
F	.125	.145	3.18	3.68
G	.490	.510	12.45	12.95
H	.095	.115	2.41	2.92
J	.290	.310	7.37	7.87
K	.590	.610	14.99	15.49
L	---	.020	---	0.51
M	.016	.020	0.41	0.51

Change to: .770 - .840 Inches
19.56 - 21.34 mm