

Calmark offers the Series 125/126 Card Retainer as the economical approach to protecting your Printed Circuit Board in shock and vibration applications. For those applications that require shock and vibration protection and heat sinking and grounding, the Series 165/166 may be the answer to your problem. The Series 125/126 is made from rugged stainless steel while the Series 165/166 is made from Alloy 10 BeCu for exceptional thermal and electrical conductivity. These Retainers conform to DSCC 85034.

125/126

Material:

.41 (.016) thick Stainless Steel
Type 301, Cond. 1/2 H, ASTM -A240

Finish:

Passivate per MIL -S-5002

SPRING RATE

60.4N/cm (34.5lbs/in) of deflection
per spring finger

WEIGHT

.4g/cm (.036oz/inch)

165/166

Material:

.41 (.016) thick Alloy 10
Beryllium Copper.
Cond. "AT" per Mil-C-81021

Finish:

See Part No. Code

SPRING RATE

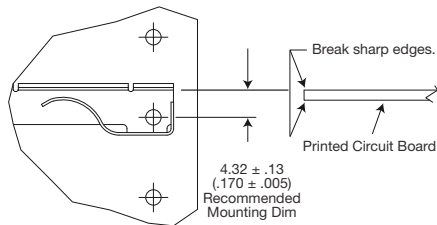
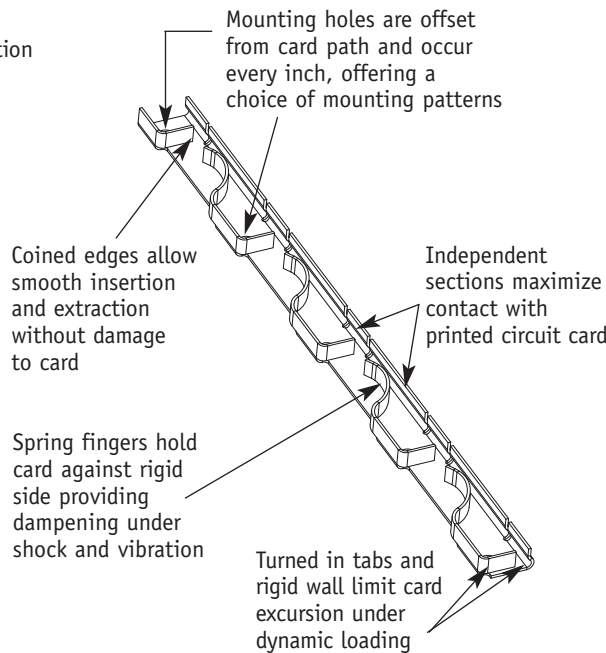
56.0N/cm (32lbs/in) of
deflection per spring finger

WEIGHT

.48g/cm (.043oz/in)



Series 125/126/165/166 retainers



Dash No.	PCB Thickness	B Dimension +0.38 (.015) \ -0.0 (.000)	G Dimension +0.0 (.00) \ -0.80 (.03)
-06	1.6 (1/16)	1.91 (.075)	1.14 (.045)
-09	2.4 (3/32)	2.67 (.105)	1.91 (.075)

Part Number Code Series

125, 126, 165, 166 ———— 125 -06 -3.25 N

PCB Thickness

1.6 (.063) ———— 06
2.4 (.094) ———— 09

Length

31.75 (1.25) to 311.15 (12.25) length.xx
in 25.4 (1.00) increments.
Other lengths available on request

Finish (165/166 only)

Nickel plate ———— N
or choose from Finish Table

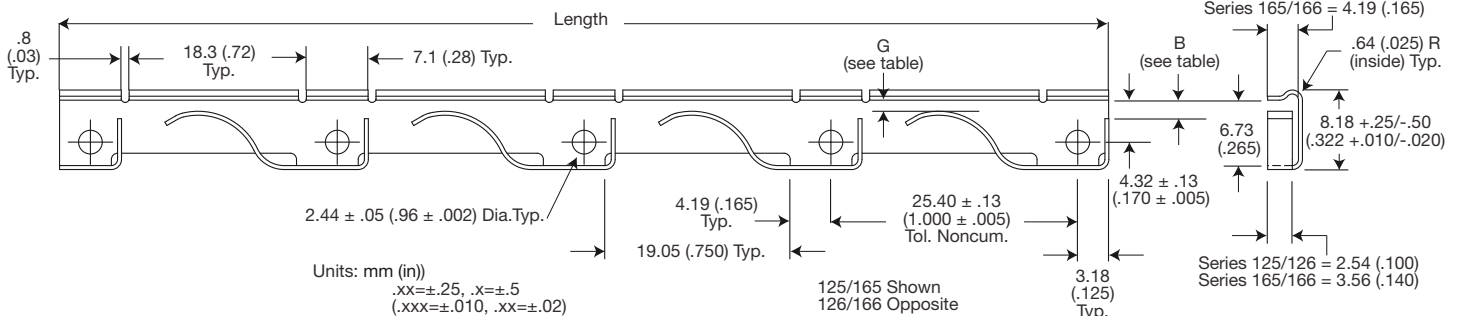
Part Number Code Example:

125-06-4.25

Series 125 passivated stainless steel, 107.95 (4.25) long designed for 1.6 (.063) thick printed circuit boards.

FINISH TABLE

Code Letter	Finish
[blank]	125/126: passivated 165/166: no finish
For 165/166 only	
"T"	Bright Tin plate per Mil-T-10727 .005 (.0002) min.
"N"	Nickel plate per QQ-N-290 Cl. 1, Gr. F
"ZN"	Zinc plate per ASTM-B633 Type III (clear), SC1
"EN"	Electroless nickel plate per Mil-C-26074 Cl. 1 Gr. B





Calmark offers the Series NW125/NW126 and NW165/NW166 Card retainers for cold plate heat exchanger applications. These Retainers provide the necessary spring pressure to insure positive contact between the thermal path on the Printed Circuit Board and the cold plate surface. The NW165/NW166 provides the additional benefit of improved thermal characteristics. These retainers conform to the DSCC 85034 specification.

NW125/NW126

Material:

0.41 (.016) thick Stainless Steel
Type 301, Cond. 1/2 H, ASTM -A240

Finish:

Passivate per Mil-S-5002

WEIGHT

.32g/cm (.029oz/in)

SPRING RATE

60.4N/cm (34.5lbs/in) of deflection
per spring finger

NW165/NW166

Material:

0.41 (.016) Alloy 10 Beryllium
Copper. Cond. "AT" per MIL-C-81021

Finish:

See Part No. Code

SPRING RATE

56N/cm (32lbs/in) of deflection
per spring finger

WEIGHT

.38g/cm (.034 oz/in)

Series NW125/NW126/NW165/NW166 retainers

Part Number Code	
Series	
NW125, NW126, NW165, NW166	
	NW125 -06 -3.25 N
PCB Thickness	
1.6 (.063)	06
2.4 (.094)	09
Length	
31.75 (1.25) to 311.15 (12.25) length.xx	
in 25.4 (1.00) increments.	
Other lengths available on request	
Finish (NW165/NW166 only)	
Nickel plate	N
or choose from Finish Table	

Part Number Code Example:

NW165-09-4.25EN

Series NW165 BeCu with Electroless Nickel finish, 107.95 (4.25) long designed for 2.4 (.094) thick printed circuit boards.

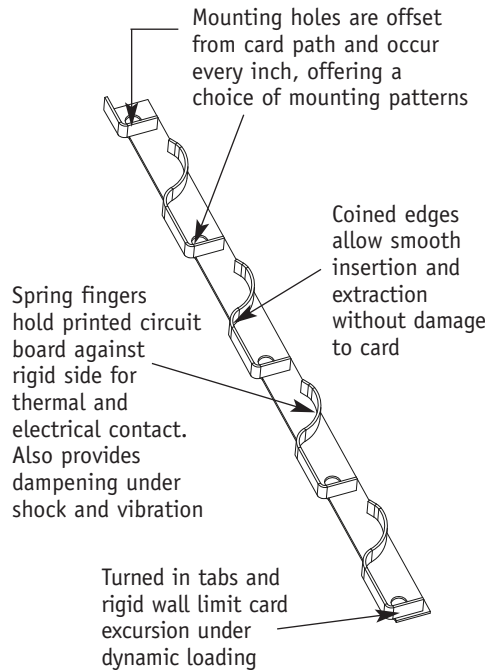
FINISH TABLE

Code Letter	Finish
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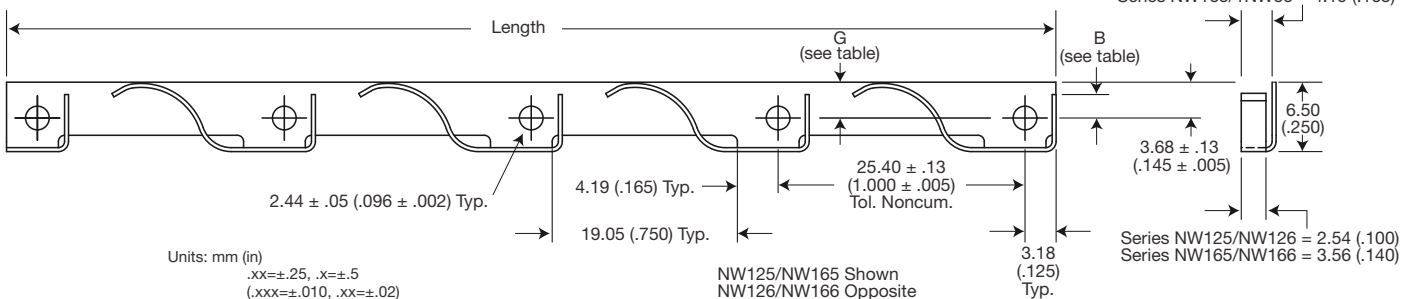
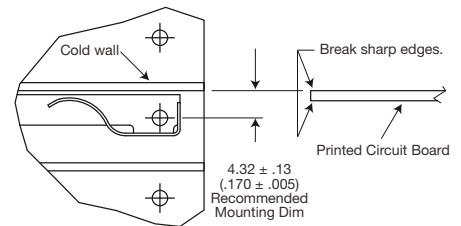
[blank] NW125/NW126: passivated
NW165/NW166: no finish

For NW165/NW166 only

"T" Bright Tin plate per Mil-T-10727
.005 (.0002) min.
"N" Nickel plate per QQ-N-290 Cl. 1, Gr. F
"ZN" Zinc plate per ASTM-B633 Type III (clear), SC1
"EN" Electroless nickel plate per Mil-C-26074 Cl. 1 Gr. B



Dash No.	PCB Thickness	B Dimension +0.38 (.015) \ -0.0 (.000)	G Dimension +0.0 (.00) \ -0.80 (.03)
-06	1.6 (1/16)	2.41 (.095)	3.94 (.155)
-09	2.4 (3/32)	1.65 (.065)	3.18 (.125)



Units: mm (in)
.xx=±.25, .x=±.5
(.xxx=±.010, .xx=±.02)

NW125/NW165 Shown
NW126/NW166 Opposite