CALMARK Series 125/126 and 165/166 - Retainers

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)



Coined edges allow Independent smooth insertion sections maximize and extraction contact with printed circuit card without damage to card Spring fingers hold card against rigid side providing dampening under shock and vibration Turned in tabs and rigid wall limit card excursion under dynamic loading **B** Dimension **G** Dimension PCB Dash +0.38 (.015) +0.0 (.00) No. Thickness \-0.0 (.000) \-0.80 (.03) 1.91 (.075) -06 1.6 (1/16) -09 2.4 (3/32) 2.67 (.105) Length

62620
~ FR FR F F
62 62 6 A RAIL

Series 125/126/165/166 retainers

Mounting holes are offset from card path and occur

choice of mounting patterns

every inch, offering a

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) <i>length.xx</i>
in 25.4 (1.00) increments.
Other lengths available on request
Finish (165/166 only)
Nickel plateN
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 165/3	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



1.14 (.045)

1.91 (.075)

SERIES NW125/NW126 AND NW165/NW166 - RETAINERS CALMARK



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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
 09

 31.75 (1.25) to 311.15 (12.25) length.xx
 100

 in 25.4 (1.00) increments.
 00

 Other lengths available on request
 6

 Finish (NW165/NW166 only)
 Nickel plate

 or choose from Finish Table
 00

Part Number Code Example:

NW165-09-4.25EN

Code

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

FINISH TABLE

Letter	Finish
[blank]	NW125/NW126: passivated
	NW165/NW166: no finish
For NW1	65/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

Mounting holes are offset from card path and occur every inch, offering a choice of mounting patterns Coined edges allow smooth insertion and Spring fingers extraction hold printed circuit without damage board against to card rigid side for thermal and electrical contact. Also provides dampening under shock and vibration

> Turned in tabs and rigid wall limit card excursion under dynamic loading

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)

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)



