



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 | |

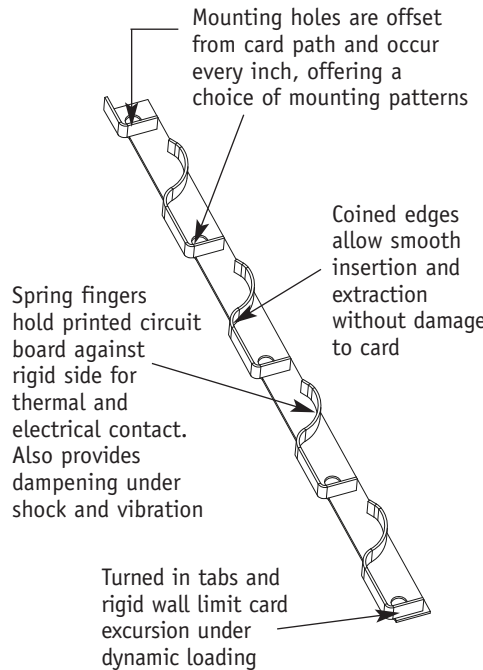
Part Number Code Example:

NW165-09-4.25EN

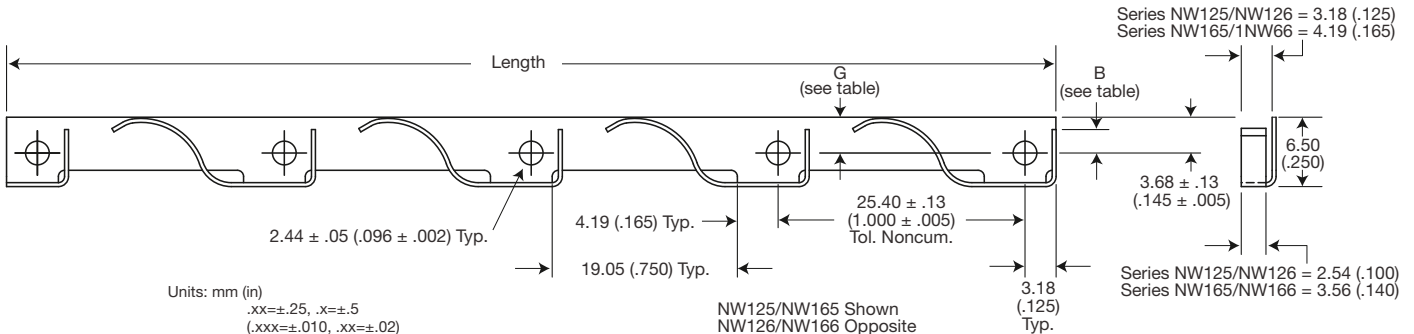
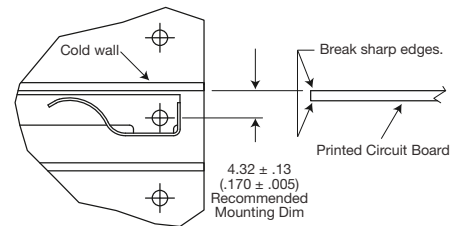
Series NW165 BeCu with Electroless Nickel finish, 107.95 (4.25) long designed for 2.4 (.094) thick printed circuit boards.

FINISH TABLE

| | |
|-----------------------------|---|
| Code Letter | Finish |
| [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