

## HL Brackets: HL, HLA, HLT, HLW, HLZ, NHL, NHLW

| GLOBAL MODEL<br>(OF RESISTOR)                                                                                                                                                                                                                                       | BRACKET TYPE  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| HL015, HL020, HL025,<br>HL026, HL050, HLA020,<br>HLA025, HLA026, HLA050,<br>HLT015, HLT020, HLT025,<br>HLT026, HLT050, HLW10,<br>HLW15, HLW20, HLZ033,<br>HLZ090, NHL015, NHL020,<br>NHL025, NHL026, NHL050,<br>NHLW10, NHLW15, NHLW20                              | 101, 203, 301 |
| HL011, HL012, HLA012,<br>HLW06, HLW12, NHL011,<br>NHL012, NHLW06, NHLW12                                                                                                                                                                                            | 101, 204, 301 |
| HL051, HL060, HL065,<br>HL100, HLA051, HLA060,<br>HLA065, HLA100, HLT051,<br>HLT060, HLT065, HLT100,<br>HLZ099, HLZ105, HLZ110,<br>HLZ165, NHL051, NHL060,<br>NHL065, NHL100                                                                                        | 102, 206, 303 |
| HL080, HL120, HL130,<br>HL160, HL175, HL225,<br>HLA080, HLA120, HLA130,<br>HLA160, HLA175, HLA225,<br>HLT080, HLT120, HLT130,<br>HLT160, HLT175, HLT225,<br>HLZ140, HLZ220, HLZ240,<br>HLZ275, HLZ300, HLZ375,<br>NHL080, NHL120, NHL130,<br>NHL160, NHL175, NHL225 | 103, 205, 303 |

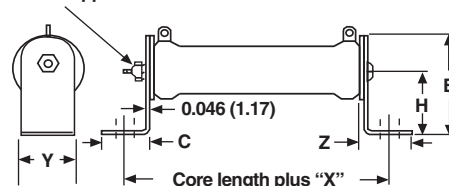
### Notes

- Each bracket assembly contains all of the hardware needed to mount one component
- Bracket type 100 and 300 series include resistor size in global part number (see next page)
- Bracket type 200 series does not include resistor size in global part number (see next page)

### DIMENSIONS in inches (millimeters)

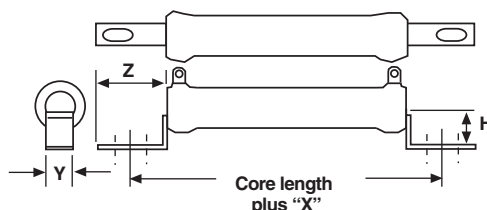
#### Horizontal Thru-Bolt

(Threaded rod supplied as standard on HL050 thru HL225 sizes.)



| BRACKET TYPE | X                | Y                | Z                | H                | MOUNTING SLOT                   | C                | B                |
|--------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|------------------|
| 101          | 1.063<br>(26.99) | 0.500<br>(12.70) | 0.859<br>(21.83) | 1.000<br>(25.40) | 0.219 x 0.438<br>(5.56 x 11.11) | 0.750<br>(19.05) | 1.375<br>(34.93) |
| 102          | 1.063<br>(26.99) | 0.750<br>(19.05) | 0.859<br>(21.83) | 1.250<br>(31.75) | 0.219 x 0.438<br>(5.56 x 11.11) | 0.750<br>(19.05) | 1.750<br>(44.45) |
| 103          | 1.063<br>(26.99) | 1.250<br>(31.75) | 1.000<br>(25.40) | 1.500<br>(38.10) | 0.281 x 0.563<br>(7.14 x 14.29) | 0.875<br>(22.23) | 2.125<br>(53.98) |

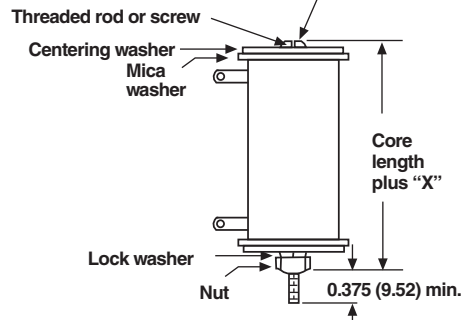
#### Push-In



| BRACKET TYPE | X                | H                | Y                | Z                | HOLE (DIA.)                    |
|--------------|------------------|------------------|------------------|------------------|--------------------------------|
| 203          | 0.625<br>(15.88) | 0.672<br>(17.07) | 0.250<br>(6.35)  | 0.469<br>(11.91) | 0.161<br>(4.09)                |
| 204          | 0.375<br>(9.53)  | 0.281<br>(7.14)  | 0.250<br>(6.35)  | 0.344<br>(8.73)  | 0.144<br>(3.66)                |
| 205          | 0.813<br>(20.64) | 1.391<br>(35.32) | 0.500<br>(12.70) | 0.688<br>(17.46) | 0.196 x 0.260<br>(4.98 x 6.60) |
| 206          | 0.719<br>(18.26) | 0.969<br>(24.61) | 0.375<br>(9.53)  | 0.625<br>(15.88) | 0.196 x 0.260<br>(4.98 x 6.60) |

#### Vertical Thru-Bolt

(Threaded rod supplied as standard on HL050 thru HL225 sizes.)



| BRACKET TYPE | X (APPROXIMATE) | THREAD |
|--------------|-----------------|--------|
| 301          | 0.438 (11.11)   | 8-32   |
| 303          | 0.500 (12.70)   | 10-32  |

\*\* Please see document "Vishay Material Category Policy": [www.vishay.com/doc?99902](http://www.vishay.com/doc?99902)



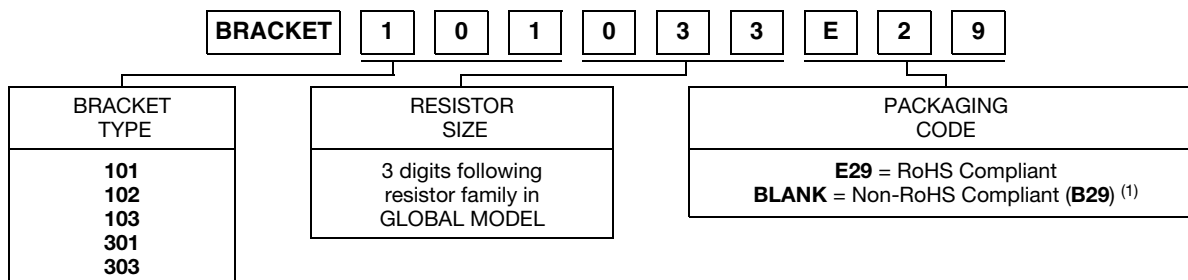
# HL Brackets and Sliders

HL Brackets: HL, HLA, HLT, HLW,  
HLZ, NHL, NHLW

Vishay Dale

## GLOBAL PART NUMBER INFORMATION

Global Part Numbering example (bracket type 100 and 300 series): **BRACKET101033E29** (RoHS bracket type 101 for HLZ033)

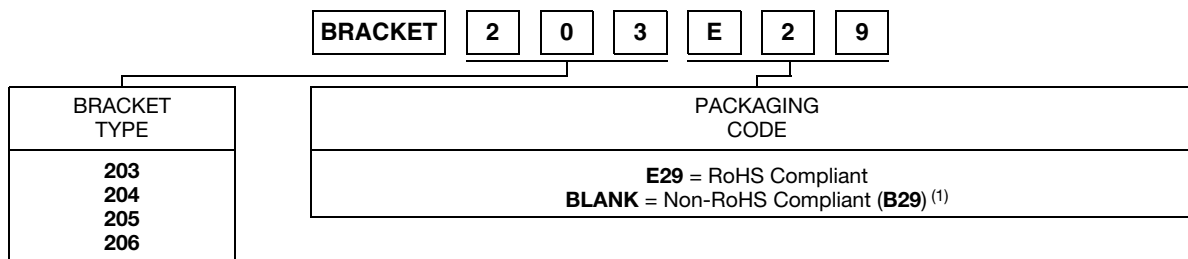


### Note

<sup>(1)</sup> Brackets ordered with no packaging code (or B29 packaging code) may not be RoHS/Green compliant

## GLOBAL PART NUMBER INFORMATION

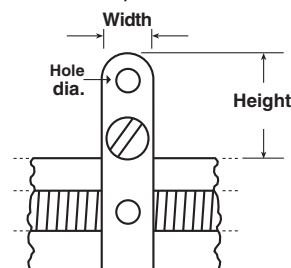
Global Part Numbering example (bracket types 200 series): **BRACKET203E29** (RoHS bracket type 203)



### Note

<sup>(1)</sup> Brackets ordered with no packaging code (or B29 packaging code) may not be RoHS/Green compliant

## HLA SLIDERS - DIMENSIONS in inches (millimeters)



| GLOBAL PART NUMBER <sup>(2)</sup><br>(RoHS COMPLIANT) | GLOBAL MODEL<br>(OF RESISTOR)                        | SLIDER MODEL<br>NUMBER | DIMENSIONS   |               |                  |
|-------------------------------------------------------|------------------------------------------------------|------------------------|--------------|---------------|------------------|
|                                                       |                                                      |                        | WIDTH        | HEIGHT        | HOLE<br>DIAMETER |
| 75008602E29                                           | HLA012                                               | 70                     | 0.188 (4.76) | 0.516 (13.10) | 0.125 (3.18)     |
| 21054401E29                                           | HLA020, HLA026                                       | 71                     | 0.250 (6.35) | 0.594 (15.08) | 0.156 (3.96)     |
| 75008603E29                                           | HLA025, HLA050                                       | 72                     | 0.250 (6.35) | 0.719 (18.26) | 0.141 (3.58)     |
| 75008604E29                                           | HLA051, HLA060,<br>HLA065, HLA100                    | 73                     | 0.250 (6.35) | 0.781 (19.84) | 0.141 (3.58)     |
| 75008605E29                                           | HLA080, HLA120,<br>HLA130, HLA160,<br>HLA175, HLA225 | 74                     | 0.313 (7.94) | 0.781 (19.84) | 0.170 (4.32)     |

### Note

<sup>(2)</sup> Order HLA Slider with Global Part Number

# Mouser Electronics

Authorized Distributor

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[BRACKET205E29](#) [BRACKET101025E29](#) [BRACKET101050E29](#) [BRACKET203](#)