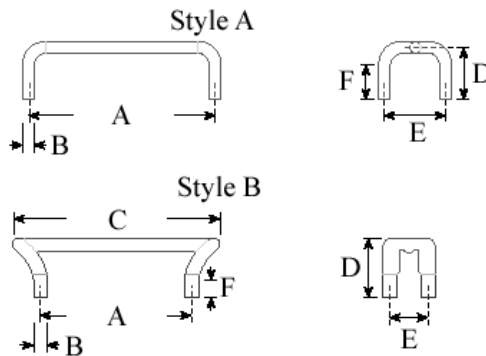


- Features:
- Values from 0.003 to 0.1
 - Suitable for high current applications where standard current sense resistor will not survive
 - Current handling up to 100 amps
 - Handles 1W to 5W of power
 - Various wire alloys and sizes allow for value, tolerance, and TC flexibility; contact factory for specific combination of alloy and Temperature Coefficient of Resistance.



Electrical Specifications				
Type / Code	Power Rating (Watts) @ 25°C	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
			2%	5%, 10%
HLD1	1W	± 100 ppm/°C - ± 50 ppm/°C	0.03 - 0.1	0.003 - 0.1
HLD3	3W	± 100 ppm/°C - ± 50 ppm/°C	0.03 - 0.1	0.003 - 0.1
HLD5	5W	± 100 ppm/°C - ± 50 ppm/°C	0.03 - 0.1	0.003 - 0.1



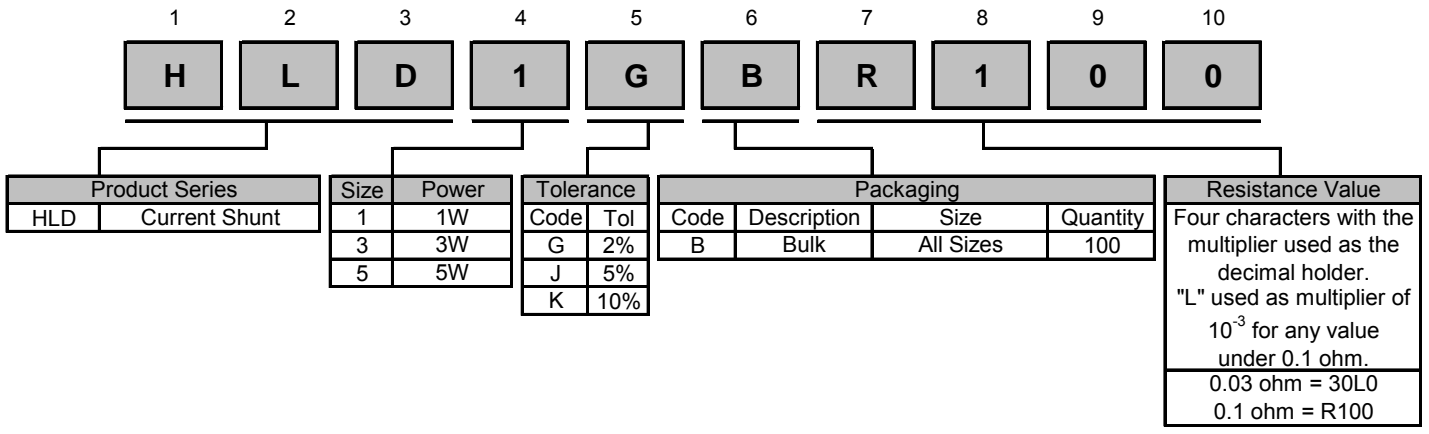
Mechanical Specifications								
Type / Code	Style	A Lead Spacing	B Lead Diameter	C Total Length	D Height	E Lead Width	F Type to Bend	Unit
HLD1	A	1.100 \pm 0.100	0.040	-	0.200 \pm 0.150	0.200 \pm 0.010	0.100	inches
		27.94 \pm 2.54	1.02	-	5.08 \pm 3.81	5.08 \pm 0.25	2.54	mm
HLD3	B	1.000 \pm 0.100	0.081	1.400 max	0.450 \pm 0.100	0.250 \pm 0.010	0.100	inches
		25.40 \pm 2.54	2.06	35.56 max	11.43 \pm 2.54	6.35 \pm 0.25	2.54	mm
HLD5	B	1.000 \pm 0.100	0.081	1.400 max	0.450 \pm 0.100	0.250 \pm 0.010	0.100	inches
		25.40 \pm 2.54	2.06	35.56 max	11.43 \pm 2.54	6.35 \pm 0.25	2.54	mm

Performance Characteristics			
Test	Test Method	Test Specification	Typical
Load Life	MIL-STD-502F-Method 108A RCWW at 70°C; 1.5hr ON, 0.5hr OFF Total 1024 \pm 24hrs	$\pm 5\%$	$\leq 5\%$
Short Time Overload	JIS-C-5202-5.5 5x rated power for 5 sec	$\pm 2\%$	$\leq 2\%$
Thermal EMF(1)	-	$\pm 40 \mu\text{V}/^\circ\text{C}$	-

Operating Temperature Range: -55°C to +275°C

(1) Thermal EMF dependant on Alloy selection; Contact Factory

How to Order



Legacy Part Number (before January 3, 2011):

SEI Type		Code		Nominal Resistance	Tolerance	Packaging				
HLD		1		0.1	2%	A				
Type	Description	Code	Wattage			Tolerance	SEI Types	Pkg Qty	Description	Code
HLD	Current Shunt	1	1W			2%	all	100	bulk	A
		3	3W			5%				
		5	5W			10%				