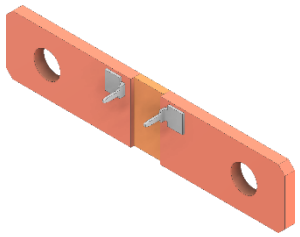
Features:

- Excellent long-term stability
- RoHS compliant, lead free and halogen free
- AEC-Q200 qualified

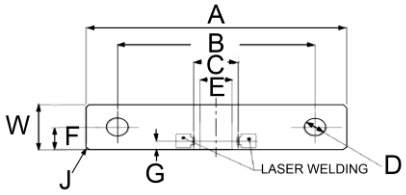


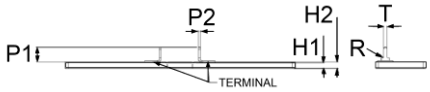
Electrical Specifications

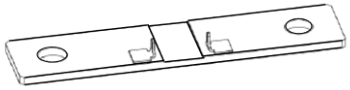
Type / Code	Power Rating (W)	TCR (ppm/°C)(1)	Ohmic Range (Ω) and Tolerance
			5%
HCC8218	35	± 150	0.0001
HCC8420	36	± 225	0.0001
HCC8518	36	± 150	0.0001
HCC7036	40	± 150	0.000025
HCC8236	50	± 150	0.000025, 0.00005

(1) TCR on test point (terminal)

Mechanical Specifications - 8218



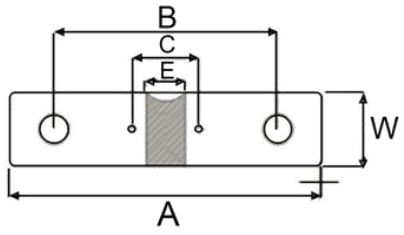


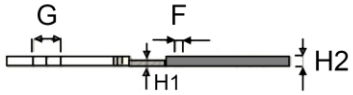


Type/Code	Pins	A	B	C	D	E	F	G	H1	Unit
HCC8218	Yes	3.228 +0/-0.004	2.441 ± 0.004	0.551 ± 0.006	0.276 ± 0.002	0.394	0.354 ± 0.004	0.138 ± 0.006	0.098	inches
		82.00 + 0/-0.10	62.00 ± 0.10	14.00 ± 0.15	7.00 ± 0.05	10.00	9.00 ± 0.10	3.50 ± 0.15	2.50	mm

H2	J	P1	P2	R	T	W	Unit
0.118 ± 0.002	0.039	0.260	0.024 ± 0.002	0.020	0.047 ± 0.002	0.709 +0/-0.004	inches
3.00 ± 0.05	1.00	6.60	0.60 ± 0.05	0.50	1.20 ± 0.05	18.00 + 0/-0.10	mm

Mechanical Specifications - 8420

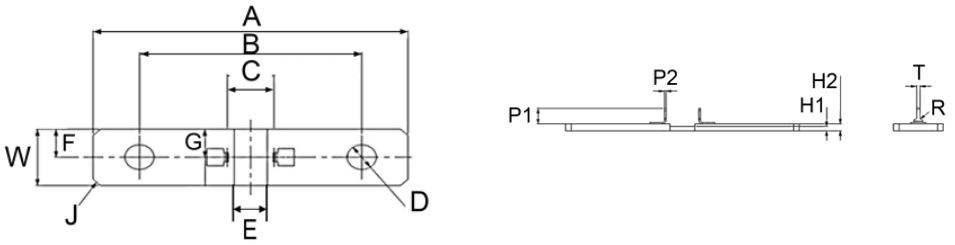




Type/Code	Pins	A	B	C	E	F	Unit
HCC8420	No	3.307 ± 0.008	2.362 ± 0.008	0.709 ± 0.008	0.343 ± 0.008	0.079 ± 0.004	inches
		84.00 ± 0.20	60.00 ± 0.20	18.00 ± 0.20	8.70 ± 0.20	2.00 ± 0.10	mm

G	H1	H2	W	Unit
0.327 ± 0.004	0.079 ± 0.008	0.118 ± 0.008	0.787 ± 0.008	inches
8.30 ± 0.10	2.00 ± 0.20	3.00 ± 0.20	20.00 ± 0.20	mm

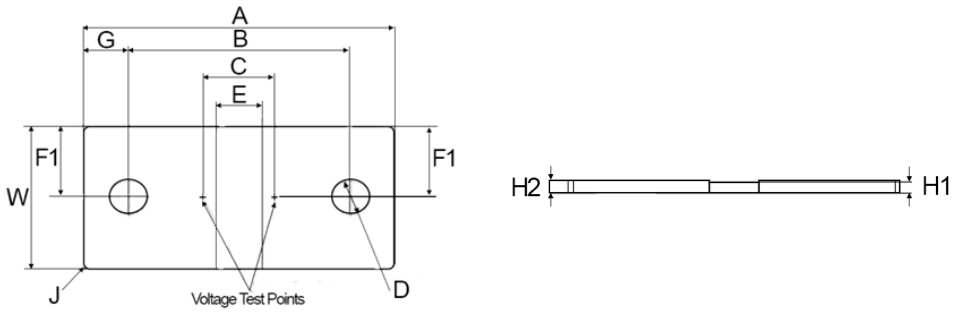
Mechanical Specifications - 8518



Type/Code	Pins	A	B	C	D	E	F	G	H1	Unit
HCC8518	Yes	3.346 +0/-0.004	2.362 ± 0.004	0.496 ± 0.006	0.315 ± 0.002	0.354	0.354 ± 0.004	0.354 ± 0.004	0.079 ± 0.008	inches
		85.00 + 0/-0.10	60.00 ± 0.10	12.60 ± 0.15	8.00 ± 0.05	9.00	9.00 ± 0.10	9.00 ± 0.10	2.00 ± 0.20	mm

H2	J	P1	P2	T	R	W	Unit
0.118 ± 0.002	0.079 ± 0.008	0.260 ± 0.008	0.024 ± 0.002	0.047 ± 0.002	0.020	0.709 +0/-0.004	inches
3.00 ± 0.05	2.00 ± 0.20	6.60 ± 0.20	0.60 ± 0.05	1.20 ± 0.05	0.50	18.00 + 0/-0.10	mm

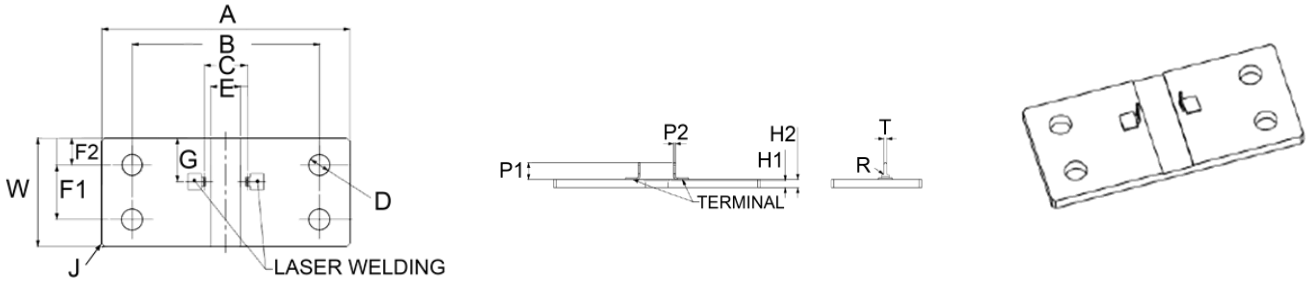
Mechanical Specifications - 7036



Type/Code	Pins	A	B	C	D	E	F1	G	H1	Unit
HCC7036	No	2.756 +0/-0.004	1.969 ± 0.004	0.354 ± 0.006	0.335 ± 0.002	0.197 ± 0.008	0.709 ± 0.004	0.394 ± 0.004	0.098 ± 0.002	inches
		70.00 + 0/-0.10	50.00 ± 0.10	9.00 ± 0.15	8.50 ± 0.05	5.00 ± 0.20	18.00 ± 0.10	10.00 ± 0.10	2.50 ± 0.05	mm

H2	J	W	Unit
0.118 ± 0.002	0.039	1.417 +0/-0.004	inches
3.00 ± 0.05	1.00	36.00 + 0/-0.10	mm

Mechanical Specifications - 8236

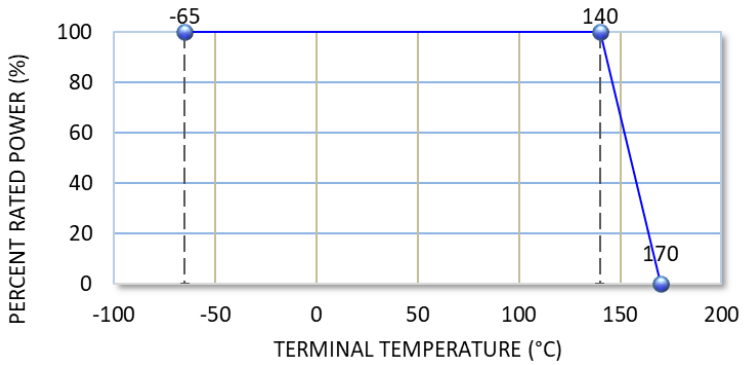


Type/Code	Pins	A	B	C	D	E	F1	F2	G	Unit
HCC8236 0.000025Ω	Yes	3.228 +0/-0.004	2.441 ± 0.004	0.354 ± 0.006	0.276 ± 0.002	0.197	0.709 ± 0.004	0.354 ± 0.004	0.571 ± 0.006	inches
		82.00 + 0/-0.10	62.00 ± 0.10	9.00 ± 0.15	7.00 ± 0.05	5.00	18.00 ± 0.10	9.00 ± 0.10	14.50 ± 0.15	mm

H1	H2	J	P1	P2	R	T	W	Unit
0.098	0.118 ± 0.002	0.039	0.260	0.024 ± 0.002	0.020	0.047 ± 0.002	1.417 +0/-0.004	inches
2.50	3.00 ± 0.05	1.00	6.60	0.60 ± 0.05	0.50	1.20 ± 0.05	36.00 + 0/-0.10	mm

Mechanical Specifications - 8236 (cont.)										
Type/Code	Pins	A	B	C	D	E	F1	F2	G	Unit
HCC8236 0.00005Ω	Yes	3.228 +0/-0.004 82.00 + 0/-0.10	2.441 ± 0.004 62.00 ± 0.10	0.551 ± 0.006 14.00 ± 0.15	0.276 ± 0.002 7.00 ± 0.05	0.394 10.00	0.709 ± 0.004 18.00 ± 0.10	0.354 ± 0.004 9.00 ± 0.10	0.571 ± 0.006 14.50 ± 0.15	inches mm
		H1	H2	J	P1	P2	R	T	W	Unit
		0.098 2.50	0.118 ± 0.002 3.00 ± 0.05	0.039 1.00	0.260 6.60	0.024 ± 0.002 0.60 ± 0.05	0.020 0.50	0.047 ± 0.002 1.20 ± 0.05	1.417 +0/-0.004 36.00 + 0/-0.10	inches mm

Power Derating Curve:



Performance Characteristics		
Item	Test Condition	Specification
High Temperature Exposure	Temperature: 170°C; Time: 1000 hours	ΔR: ± 1%
Temperature Cycle	Cycle times: 1000 cycles Temperature: -55°C / 155°C Dwell time: 30 minutes Transition times: 1 minute	ΔR: ± 0.5%
Biased Humidity	Temperature: 85°C Relative humidity: 85% Time: 1000 hours Current: Rated power x 10%	ΔR: ± 0.5%
Low Temperature Exposure	Temperature: -65 ± 2°C; Time: 45 minutes	ΔR: ± 1%
Short Time Overload	Power: 5 x rated power Time: 5 seconds	ΔR: ± 1%
DC Resistance	Test method: 4 terminal method; Current: 10 A	Within the regulated tolerance
External Visual	Visual inspection	Artificial scratches, discoloration, terminal junction and bending, molding defective product.
Sensing Terminal Junction Strength	Measuring equipment: push-pull gauge Tie-up area: Pin 1/2 point	20 Kg
Mechanical Shock	Power: 100 g; Pulse time: 6 ms; Cycle: 5 times	ΔR: ± 0.5%
Vibration	Power: 5 g Frequency: 10 - 2000 Hz Sweep time: 20 minutes Cycle: 12 cycles at 3 axis Vibration direction and wave form: transverse-X, longitudinal-Y, vertical-Z and sine wave	ΔR: ± 0.5%
Resistance to Soldering Heat	Solder bath temperature: 260 ± 5°C Dipping time: 10 ± 1 second	ΔR: ± 0.5%
Solderability	Solder bath temperature: 245 ± 5°C Dipping time: 5 ± 0.5 seconds	>95% coverage

Note: The surface temperature of component should be below 100°C
Recommended storage conditions is 22 ~ 28°C. Humidity: 40 ~ 75%.
Operating temperature range is -65 to 170°C.
Product use period: It is recommended to use within 2 months of opening the vacuum packaging.

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status

Standard Product Series	Description	Item	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition
HCC	High Current Chassis Mount Shunt Resistor	Terminal	SMD	YES	100% Copper
		Sizes 8218, 8518, and 8236 Sensing Terminal			Cu (Ag plating/Over 3 µm)

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

H	C	C	8	4	2	0	J	B	L	1	0	0

Product Series

Code	Description
HCC	High Current Chassis Mount Shunt

Size

Code	W
8218	35
8420	36
8518	36
7036	40
8236	50

Tolerance

Code	Tol
J	5%

Packaging

Code	Description	Size	Quantity
B	Bulk	8218, 8420, 8518	300
		7036, 8236	100

Resistance Value

Four characters with "L" used as multiplier of 10^{-3} for any value under 0.1 ohm

0.000025Ω = L025
0.00005Ω = L050
0.0001Ω = L100