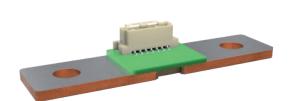


ISA-WELD® // PRECISION RESISTORS

BSS // SIZE 8420 (METRIC)

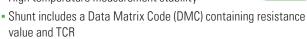




Features

- Up to 20 W permanent power
- High pulse power rating





AEC-Q200 qualified

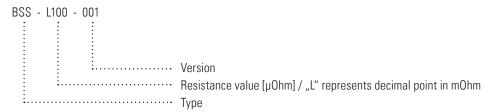
Applications

- Current sensor for BMS (Battery Management Systems)
- Current sensor for ESS (Energy Storage Systems)

Technical data		BSS-L1	00-001		
Resistance values	μOhm	10	0		
Resistance tolerance (manufactured)	%		5.0		
Resistance tolerance (measured)	%	DMC ± 0.1			
Temperature coefficient (20-60 °C)	ppm/K	<50			
Applicable temperature range	°C	-40 to 125			
Power rating (nominal load, P_{nom})	W	20			
		time	current		
		continuous	±450 A		
Load for continuous / pulse operation*		10 s	±600 A		
		1 s	±1,100 A		
		100 ms	±3,500 A		
Internal heat resistance (R _{thi})	K/W	2.0			
Thermal EMF (30-60°C)	μV/K	<0.6			
Inductance	nH	<3			
Maximum resistance drift at nominal load after 2,000h of continuous operation at maximum temperature T_{max}		< 0.5 % (<i>T</i> _{max} = 125 °C)			

Note: For calculation of the maximum derating terminal temperature (T_K) the following formula can be used: $T_K = T_{max} - (P_{thi} \times P_{nom})$.

Ordering code example



Packaging information

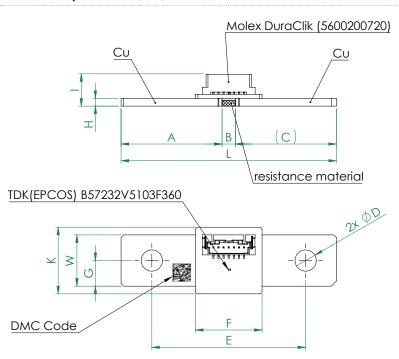
i dokuging mioimation	
Delivery in ESD plastic trays	
15 pcs. per tray, 1,440 pcs. per batch	

^{*}Sample loads. Please feel free to contact us in case of differing currents or pulse profiles.



BSS // SIZE 8420 (METRIC)

Mechanical specification [mm]

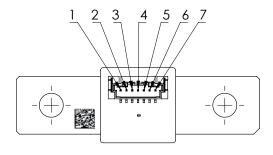


Type / Ordering code	Α	В	C	D	E	F	G	Н
BSS-L100-001	36.95 ± 0.3	10.1 ± 0.5	(36.95)	ø 8.3 ± 0.1	60 ± 0.2 2	6 ± 0.2	10 ± 0.2	3 ± 0.1
Type / Ordering code	ı	K	W	L	shunt plating	unde	rlayer	alloy
BSS-L100-001	13 ± 0.5	22 ± 0.2	20 ± 0.2	84 ± 0.2	Sn		-	MANGANIN®

PCB Specification

Type / Ordering code	Connector	Part no.	Orientation	Positions	NTC quantity
BSS-L100-001	Molex	5600200720	vertical	7	1

PIN specification BSS-L100-001



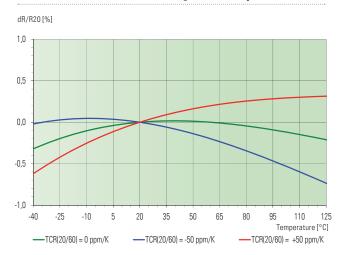
Connector Pin	Signal
1	NTC+
2	R1+
3	R2+
4	R2-
5	R1-
6	NTC-
7	GND

ISA-WELD® // PRECISION RESISTORS

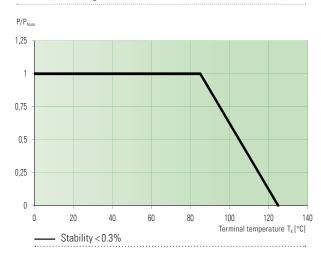


BSS // SIZE 8420 (METRIC)

BSS-L100-001 Resistance Change with Temperature



Power derating curve



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