



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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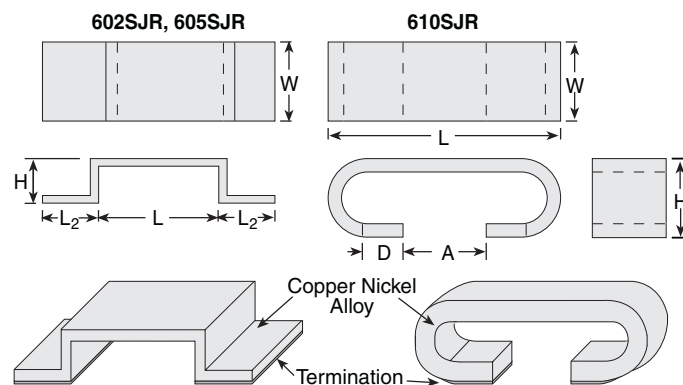
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Metal Plate Current Sense Resistors

Surface Mount Metal Alloy Resistor 60S Series



Type	Tolerance	TCR (ppm/°C)	Power Rating (watts)	Resistance Range (Ω)	Rated Ambient Temp. (°C)	Operating Temp. Range (°C)
602SJR	±5%	±100	0.25 @ 25°C	0.002-0.010	+70°C	-40 - +155
605SJR	±5%	±100	0.5 @ 25°C	0.002-0.005	+70°C	-40 - +155
610SJR	±5%	±350	1 @ 70°C	0.002-0.003	+85°C	-40 - +155

DIMENSIONS inches (mm)

	L	L2	H	W
602SJR	0.39 ± .008 (10.0 ± 0.2)	0.018 ± .008 (2 ± 0.2)	0.024 (0.6 ± 0.1)	0.118 ± .008 (3.0 ± 0.2)
605SJR	0.39 ± .008 (10.0 ± 0.2)	0.018 ± .008 (2 ± 0.2)	0.079 (2 max.)	0.20 ± .008 (5.2 ± 0.2)

	L	H	D	A	W
610SJR	0.44 ± .016 (11.2 ± 0.4)	0.137 ± .016 (3.5 ± 0.4)	0.095 ± .010 (2.35 ± 0.25)	0.189 ± .030 (4.8 ± .75)	0.126 ± .016 (3.2 ± 0.40)

STOCK PART NUMBERS AVAILABLE

Ohms	Wattage:	0.25 watt	0.5 watt	1 watt
	Series:	602SJR	605SJR	610SJR
0.00200Ω			605SJR00200-T	610SJR00200-T
0.00300Ω		602SJR00300-T		610SJR00300-T
0.00375Ω			605SJR00375-T	
0.00500Ω		602SJR00500-T	605SJR00500-T	
0.00800Ω			605SJR00800-T	

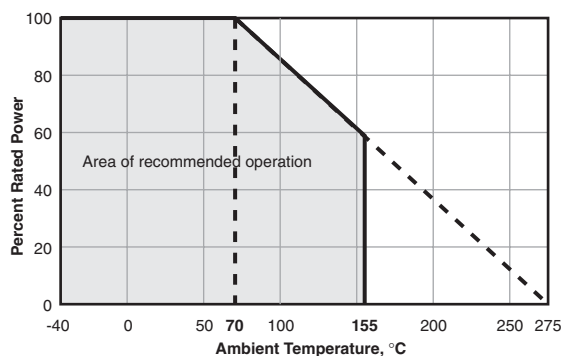
FEATURES

- Superior thermal expansion cycling
- Inductance less than 10 nano-henries
- Flameproof
- Solderable pads: Tin (Sn) plate
- Lead flexible for thermal expansion
- Low termination stress ("J" leads)
- Shape provides cooler operation
- Custom values available

APPLICATIONS

- Current sensing
- Low inductance
- AC applications (please contact factory)
- Feedback
- Surge & pulse

DERATING



PERFORMANCE CHARACTERISTICS

Parameter	Requirement	Test Method (JIS C 5202)
Resistance	Within regulated tolerance	25°C
T.C.R.	Within specified T.C.R.	Room temperature/100°C up
Resistance to Solder Heat	±2.0%	350°C ± 10°C, 3 seconds
Solderability	95% coverage minimum	235°C ± 5°C, 5 seconds
Moisture Resistance	±3.0%	40°C, 90 - 95% RH, 1000 hours, no load
Moisture Resistance	±5.0%	Power rating x 1/10, 40°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Load Life	±5.0%	Rating voltage, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle

ORDERING INFORMATION

602SJR0100-T			
Type & Power Rating	Tolerance	Ohms	Terminal Type
J = 5%	J = 5%	R00200 = 0.00200 R00375 = 0.00375	T = tape and reel (optional)

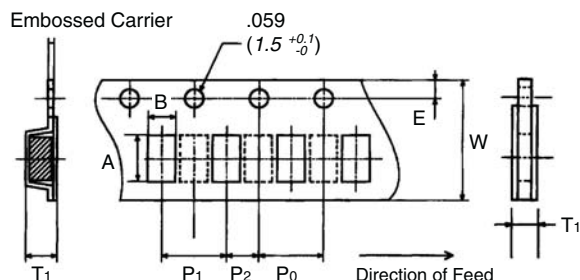
Metal Plate Current Sense Resistors

Surface Mount Custom Milli-Ohm Resistor

60 Series

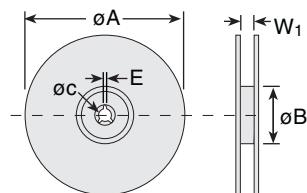
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PACKAGING SPECIFICATIONS



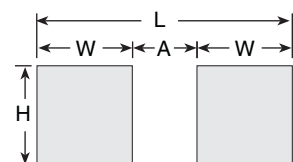
TAPE inches (mm)

Type	A	B	E	W	P0	P1	P2	T1
602SJR	0.057 (1.45 ± 0.2)	0.134 (3.4 ± 0.2)	0.069 (1.75 ± 0.1)	0.079 (2.0)	0.157 (4.0 ± 0.1)	0.315 (8.0 ± 0.1)	0.079 (2.0)	0.098 (2.5 ± 0.2)
605SJR	0.057 (1.45 ± 0.2)	0.224 (5.7 ± 0.2)	0.069 (1.75 ± 0.1)	0.079 (2.0)	0.157 (4.0 ± 0.1)	0.315 (8.0 ± 0.1)	0.079 (2.0)	0.091 (2.3 ± 0.2)
610SJR	0.461 (11.7 ± 0.1)	0.169 (4.3 ± 0.1)	0.069 (1.75 ± 0.1)	0.945 (24.0 ± 0.2)	0.157 (4.0 ± 0.1)	0.315 (8.0 ± 0.1)	0.079 (2.0)	—



REEL inches (mm)

Type	A	B	C	E	W1
602SJR	10.0	3.15	0.511	0.079	1.0
605SJR	(255 +0.0 -3.0)	(80 +1.0 -0)	(13.0 ±0.2)	(2.0 ±0.5)	(25.5 ± 2.0)
610SJR	12.99 (330 ± 2.0)	3.94 (100 ± 2.0)	0.511 (13.0 ± 0.2)	0.079 (2.0 ± 0.5)	1.0 (25.5 ± 2.0)



PAD inches (mm)

Type	L	W	H	A
602SJR	0.622 (16.0)	0.118 (3.0)	0.150 (3.8)	0.394 (10.0)
605SJR	0.622 (16.0)	0.118 (3.0)	0.236 (6.0)	0.394 (10.0)
610SJR	0.369 (9.36)	0.121 (3.07)	0.142 (3.60)	0.127 (3.22)