

Current Sensing (Shunt) Resistors

(Chip types, E-Beam Welded types)



Shunt Resistors [HCS/MCS/CSR]

Feature :

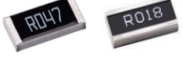
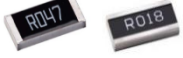
High power and extremely low resistance value
 AEC-Q200 qualified
 Customized dimension, Various rated power (1W~50W)

Application :

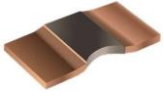
Current sensor for all applications of Battery, xEV, TV, Whitegoods, IT, others



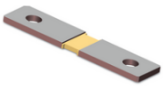
■ CSR/VCS (Current Sensing Resistors – CSR-Non automotive, VCS-Automotive grade)

Item	size	Power	Tolerance	Resistance value		Temperature	TCR [ppm/K]	AEC-Q200 [Automotive]
				(the lowest)	(the highest)			
 CSR	1206	1W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	75~275	
	2512	2W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	75~275	
	1225	3W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	75~275	
 VCS	1206	1W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	50~275	○
	2512	2W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	50~275	○
	1225	3W	1 %	0.001 Ω	0.5 Ω	-55 ~ 170°C	50~275	○

■ MCS (Mount High Power Current Sensing Resistors, Automotive grade)

Item	size	Power	Tolerance	Resistance value		Temperature	TCR [ppm/K]	AEC-Q200 [Automotive]
				(the lowest)	(the highest)			
 E-Beam Welded Surface Mount	5930	7~15 W	1 %	0.0001 Ω	0.003 Ω	-55 ~ 170°C	75~300	○
	3920	5~9 W	1 %	0.0002 Ω	0.005 Ω	-55 ~ 170°C	75~175	○
	2512	3~6 W	1 %	0.0003 Ω	0.005 Ω	-55 ~ 170°C	70~200	○
	2818	10 W	1%	0.004 Ω	0.04 Ω	-55 ~ 170°C	75~200	○
	2527	10 W	1 %	0.0001 Ω	0.0001 Ω	-55 ~ 170°C	200	○

■ HCS (High Power Current Sensing Resistors, Automotive grade)

Item	size	Power	Tolerance	Resistance value		Temperature	TCR	AEC-Q200 [Automotive]
				(the lowest)	(the highest)			
 E-Beam Welded For high current application	8518 (metric)	36 W	5 %	0.0001 Ω		-55 ~ 170°C	50 ppm/K	○
	8236 (metric)	50 W	5 %	0.00005 Ω		-55 ~ 170°C	50 ppm/K	○
	7518 (metric)	35 W	5 %	0.0001 Ω		-55 ~ 170°C	50 ppm/K	○
	6018 (metric)	15 W	5 %	0.0001 Ω		-55 ~ 170°C	50 ppm/K	○
	5216 (metric)	12 W	5 %	0.0001 Ω		-55 ~ 170°C	50 ppm/K	○
	4214 (metric)	7 W	5 %	0.00016 Ω	0.0005 Ω	-55 ~ 170°C	20 ppm/K	○

