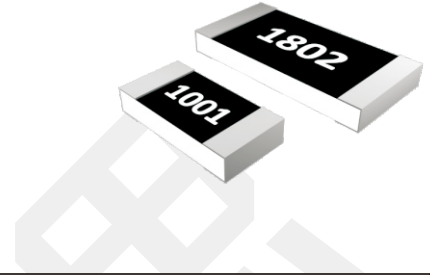


**AEC-Q200 qualified,high reliability, high stability**  
**Anti-sulfur Suitable for reflow and wave soldering**  
**RoHS compliant**

**Introduction**

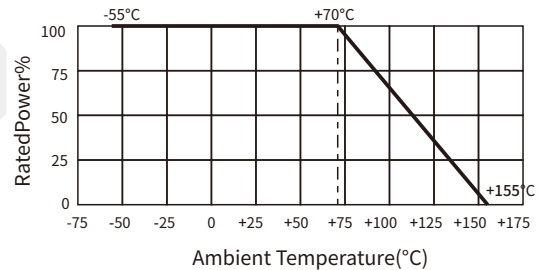
Driving is closely related to life safety.Stress test qualification for passive components(AEC-Q200) requires each part to achieve the highest quality and reliability standard , even near zero failure rate.Based on the MIL standard,AEC-Q200 specifies some reliability tests, including load life test , thermal shock,high humidity,high temperature storage , high temperature operation , moisture resistance and so on.The automotive thick film resistor can be used not only for various types of vehicles , but also for all application which request high reliability , such as medical , electric power , railway and instruments.



Specifications									
Model	Rated Power (70°C)	Resistance Range & Tolerance			Working Voltage	Overload Voltage	Jumper Resistance	Jumper Current	Operating Temp.Range
		±0.1%(B)	±0.5%(D)	±1%(F)					
AECR0402	0.063W	10Ω≤R≤1MΩ			50V	100V	<50mΩ	1A	-55°C~+155°C
AECR0603	0.100W	10Ω≤R≤1MΩ			75V	150V	<50mΩ	1A	
AECR0805	0.125W	10Ω≤R≤1MΩ			150V	300V	<50mΩ	2A	
AECR1206	0.250W	10Ω≤R≤1MΩ			200V	400V	<50mΩ	2A	
AECR1210	0.500W	10Ω≤R≤1MΩ			200V	400V	<50mΩ	2A	
AECR2010	0.750W	10Ω≤R≤1MΩ			200V	400V	<50mΩ	2A	
AECR2512	1.000W	10Ω≤R≤1MΩ			200V	400V	<50mΩ	2A	

**TCR**

Resistance	1Ω-10Ω	>10Ω
TCR	±200ppm(S)	±100ppm(K)



**Packaging**

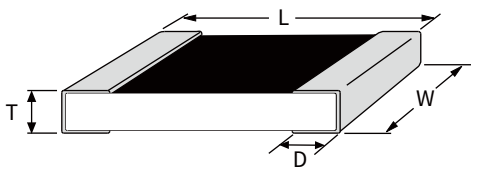
Size	0402	0603	0805	1206	1210	2010	2512
Quantity	10000/R	5000/R	5000/R	5000/R	5000/R	4000/R	4000/R

**PartNumberInformation**

Example:AECR0805F10R0K9 (AECR 0805 ±1% 10Ω 100ppm)

A	E	C	R	0	8	0	5	F	1	0	R	0	K	9
Series AECR		Size 0402 1206 0603 1210 0805 2010 2512				Tolerance B=±0.1% D=±0.5% F=±1%		Resistance 1R00=1Ω 1K00=1KΩ 1M00=1MΩ 10M0=10MΩ			TCR K=±100ppm S=±200ppm		Code 9=Standard	

A,Jumper resistance code is 0000, tolerance code is F(Resistance is less than 10mΩ),TCR code is K example:AECR2512F0000K9(2512 0Ω 2A);  
 B,The rated current of jumper in size 0402-0805 is 1A , the rated current of 1206-2512 is 2A;  
 C,Storage condition is 5°C-30°C, 30%-70%R.H..

Dimensions(mm)				
				
Model	L	W	T	D
AECR0402	1.00±0.10	0.50±0.05	0.35±0.05	0.25±0.10
AECR0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20
AECR0805	2.00±0.15	1.25±0.15/-0.10	0.55±0.10	0.40±0.20
AECR1206	3.10±0.15	1.55±0.15/-0.10	0.55±0.10	0.45±0.20
AECR1210	3.10±0.10	2.60±0.20	0.55±0.10	0.50±0.20
AECR2010	5.00±0.10	2.50±0.20	0.55±0.10	0.50±0.20
AECR2512	6.35±0.10	3.20±0.20	0.55±0.10	0.50±0.20

Performance		
Test	Standard	TestMethod
Short Time Overload	±1%: ±(1.0%+0.05Ω) ±5%: ±(2.0%+0.05Ω)	2.5times the rated voltage(≤maximum overload voltage),5s
High Temp.& High Humidity	±1%: ±(1.0%+0.05Ω) ±5%: ±(3.0%+0.05Ω)	+85°C, 85%RH, 10% rated power,1000h Measured after 24±4h
Load Life	±1%: ±(1.0%+0.1Ω) ±5%: ±(3.0%+0.1Ω)	1000 h at +125°C, apply derated power of continuous working voltage(36%), 90 min on, 30 min off
Resistance to Solder Heat	±1%: ±(0.5%+0.05Ω) ±5%: ±(1.0%+0.05Ω)	+270°Ctinbath,holdfor10s
Solderability	Coverage area is not less than 95%	1.Bakeat +155°C dry heat for 4 h,immerse for 5±0.5 s at +245±3°C 2.Steam aging for 8 h, immersed in +260±3°Cfor30±0.5s
Substrate Bending	±(1.0%+0.05Ω)	AECR0402-AECR1206 3mm/AECR1210-AECR2512 2mm hold for 60±5s
Anti-Sulfur	±5%: ±(5.0%+0.05Ω) ±1%: ±(1.0%+0.05Ω)	Hydrogen sulfide 3~5PPM,+50°C±2°C, 91%~93% RH, 1000 h

