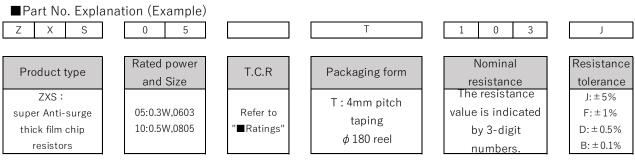
Anti-sulfurated · anti-surge thik film chip resistor ZXS series

ZXS05 (0603) ZXS10 (0805) * () : Inch size Recommendation ■ Structure Features Guaranteed 0603 size 0.3W, 0805 size 0.5W $\cdot \pm 0.5$ resistance tolerance is in lineup. • ESD (new JASO condition) 15KV is applied, ④Inside termination resistance change rate within 10% (actual value) Intermediate termination ①substrate ②Resistive film RoHS qualified Outside termination 30vercoat film ELV gualified *This is only a schematic drawing of the structure. AEC-Q200 qualified

• The use of special inside termination contribute to high performance of anti-sulfuration.



*The first two numbers are significant numbers,

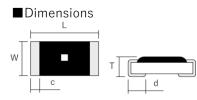
and the third one is the number of zeros "0" following to the first two numbers (multiple of 10).

*If there is a decimal point in resistance value, it is indicated by "R" and all numbers are significant numbers.

*In the case of the E96 sequence,

the first three values mean the significant figures and the fourth one represents

the number of 0 following to them (multiplier of 10).



* External dimensions are for reference only. Overcoat film color : Black

1		L	W	Т	С	d	
	ZXS05	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	+ 0.15	+ 0.15	
					-0.10	- 0.10	
	ZXS10	2.00 ± 0.15	1.25 ± 0.15	0.55 + 0.10 - 0.05	+ 0.20	0.40 ± 0.15	
					-0.15	0.40 = 0.13	

* ZXS has no indication of resistance value.Yellow ■ shows anti-sulfuration series.

(Unit: mm)

■Ratings

	Rated power	Limiting element voltage(*1)	Maximum overload voltage(*2)	Range of rated resistance	Tolerance on rated resistance	Category temperature range			rature Coefficier sistance(T.C.R)	nt of
		150V	200V	J:0.1Ω~10MΩ	J(±5%)	-55°C~+155°C		+25°C~+125°C -	0.1Ω~9.1Ω	±250×10-6/°C
	0.3W								10Ω~10MΩ	±200×10-6/°C
				F:0.1Ω~1.5MΩ	F(±1%)	-55°C~+155°C	Z	+25°C~+125°C	0.1Ω~0.91Ω	±150×10-6/°C
								+25°C~+125°C	1Ω~9.1Ω	±250×10-6/°C
ZXS05									10Ω~1.5MΩ	±200×10-6/°C
2×305				D:0.1Ω~1.5MΩ	D(±0.5%)	-55°C~+155°C		+25°C~+125°C	1Ω~1.5MΩ	±200×10-6/°C
							Ζ		0.1Ω~0.976Ω	±150×10-6/°C
							К		1Ω~1.5MΩ	±100×10-6/°C
				Β:1.0Ω~56.2ΚΩ	B(±0.1%)	-55°C~+155°C		-+25°C~+125°C	1kΩ~56.2KΩ	±200×10-6/°C
							K		1kΩ~56.2KΩ	±100×10-6/°C
			400V	J:0.1Ω~10MΩ	J(±5%)	-55°C~+155°C		+25°C~+125°C	0.1Ω~0.91Ω	±250×10-6/°C
	0.5W	200V							1Ω~10MΩ	±200×10-6/°C
				F:0.1Ω~1.5MΩ	F(±1%)	-55°C~+155°C		+25°C~+125°C	0.1Ω~0.91Ω	± 250 × 10 ⁻⁶ /°C
ZXS10									1Ω~1.5MΩ	±200×10-6/°C
27210	0.500			D:0.1Ω~1.5MΩ	D(±0.5%)	-55°C~+155°C	w	+25°C~+155°C	0.1Ω~0.976Ω	±100×10-6/°C
								-30°C~+25°C		± 120×10-6/°C
								-40°C~+25°C		±125×10-6/°C
							К	+25°C~+125°C	1Ω~1.5MΩ	±100×10-6/°C

(*1) Rated voltage = $\sqrt{Rated power \times Resistance value}$

In the case of rated voltage over above limiting element voltage, limiting element voltage will be the maximum.

(*2) The applied voltage in short time overload test = $2.5 \times \text{rated voltage}$

In the case of the applied voltage in short time overload test over above maximum overload voltage, maximum overload voltage will be the maximum.

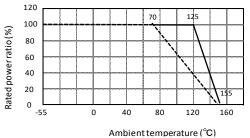
* There are the supplementary information about rating on reference page.

* Temperature Coefficient of Resistance (T.C.R) is based on JIS C5201-1 6.2 between two points: 25°C and 125°C.

Item	Specifications	Test method			
Overload	$\pm (2\% + 0.05 \Omega)$	JIS C5201-1 8.1			
Overioau	$\pm (2.\% + 0.05 \Omega)$	$2.5 \times Rated$ voltage, for 5 seconds			
Bend strength of the	$\pm (1\% + 0.05 \Omega)$	JIS C5201-1 9.8			
face plating	± (1%+0.03Ω)	Bending distance : 3mm			
Resistance to	$\pm (1\% + 0.05 \Omega)$	JIS C5201-1 11.2			
soldering heat	$\pm (1\% + 0.05 \Omega)$	$260 \pm 5^{\circ}$ C.10(sec.)			
California hilitar	Occurrent with second these OF0(JIS C5201-1 11.1			
Solderability	Covered with more than 95%	245±3°C.(sec.)			
Rapid change of	$\pm (1\% + 0.05 \Omega)$	JIS C5201-1 10.1			
temperature	$\pm (1\% + 0.05 \Omega)$	-55°C⇔+125°C,1000(times)			
Loadlife in humidity	$\pm (2\% + 0.05 \Omega)$	60±2°C.90~95% R.H 1000h			
Endurance at 70°C	$\pm (2\% + 0.05 \Omega)$	JIS C5201-1 7.1			
Endurance at 70°C	$\pm (2\% + 0.05\Omega)$	70±2°C.1000h			

■Specifications and test methods

Derating curve



*Rated power of the resistor is the maximum power

which can be loaded continuously at the ambient temperature of 70°C. For the ambient temperature above 70,

please use the item according to the load derating curve (dotted line) Please note that the component surface temperature

does not exceed operating temperature range.

*If the component temperature is below 155°C,

the power rating can be used according to the load derating curve in the solid line.