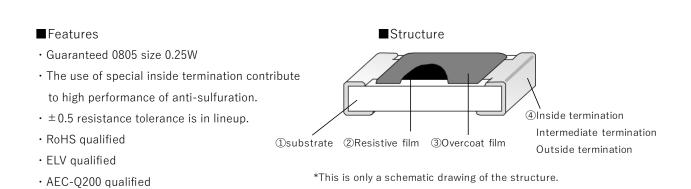
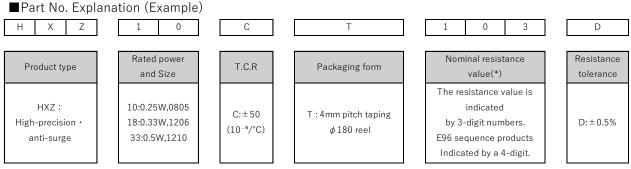
Anti-sulfurated · High-precision · anti-surge thick film chip resistors HXZ series

| HXZ10 (0805) | HXZ18 (1206) | HXZ33 (1210) |
|--------------|--------------|-----------------|
| | | *(): Inch size |

Not recommended : HXZ18(1206) , HXZ33(1210)





*The first two numbers are significant numbers,

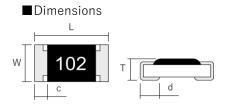
and the third one is the number of zeros "0" following to the first two numbers (multiple of 10).

*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).

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



| | L | W | Т | С | d |
|-------|-----------------------|-----------------|-----------------------|---------------------|-----------------------|
| HXZ10 | 2.00 ± 0.15 | 1.25 ± 0.15 | 0.55 + 0.10 - 0.05 | 0.25 +0.20 -0.10 | 0.40 ± 0.15 |
| HXZ18 | 3.10 + 0.20 - 0.10 | 1.55 ± 0.15 | 0.55 + 0.10 - 0.05 | 0.35 ± 0.20 | 0.50 + 0.20 - 0.15 |
| HXZ33 | 3.10 + 0.20 - 0.10 | 2.60 ± 0.15 | 0.60 ± 0.10 | 0.35 ± 0.20 | 0.50 + 0.20 - 0.15 |

* External dimensions are for reference only.

HXZ10 Green, HXZ18, HXZ33 navy blue

Overcoat film color :

Not recommended :HXZ18(1206) , HXZ33(1210)

(Unit: mm)

The resistance value is indicated by 3-digit numbers.

The product of the E96 sequence is indicated by 4-digit numbers.

Ratings

| | Rated power | Limiting element voltage(*1) | Maximum overload voltage(*2) | Range of rated resistance | Tolerance on rated resistance | Category temperature range | | Temperature Coefficient of Resistance(T.C.R) |
|-------|----------------|------------------------------------|------------------------------------|---------------------------|-------------------------------|----------------------------------|---|---|
| HXZ10 | 0.25W | 150V | 200V | $10\Omega{\sim}1M\Omega$ | D(±0.5%) | -55°C~+155°C | С | $\pm 50 \times 10^{-6}$ /°C |
| HXZ18 | 0.33W | 200V | 400V | $10\Omega{\sim}1M\Omega$ | D(±0.5%) | -55°C~+155°C | С | $\pm 50 \times 10^{-6}$ /°C |
| HXZ33 | 0.5W | 200V | 400V | 10Ω~1ΜΩ | D(±0.5%) | -55°C~+155°C | С | $\pm 50 \times 10^{-6}$ /°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 × 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.

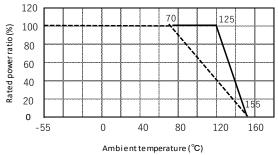
* There are the supplementary information about rating on reference page.

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

| ltem | Specifications | Test method | | |
|----------------------|----------------------------|---|--|--|
| Overload | $\pm (2\% + 0.05 \Omega)$ | JIS C5201-1 8.1 | | |
| | | $2.5 \times Rated$ voltage, for 5 seconds | | |
| Bend strength of the | $\pm (1\% + 0.05 \Omega)$ | JIS C5201-1 9.8 | | |
| face plating | $\pm(1\%+0.05\Omega)$ | Bending distance : 3mm | | |
| Resistance to | $\pm (10(.0000))$ | JIS C5201-1 11.2 | | |
| soldering heat | $\pm (1\% + 0.05 \Omega)$ | 260±5°C.10(sec.) | | |
| Solderability | Covered with more than 95% | JIS C5201-1 11.1 | | |
| | | 245±3°C.2(sec.) | | |
| Rapid change of | +(19(+0.050)) | JIS C5201-1 10.1 | | |
| temperature | $\pm (1\% + 0.05 \Omega)$ | -55°C⇔+125°C,1000 (times) | | |
| Loadlife in humidity | ± (3%+0.05Ω) | 60±2°C.90~95% R.H 1000h | | |
| Endurance at 70°C | $\pm(3\%+0.05\Omega)$ | JIS C5201-1 7.1 | | |
| | | 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°C,
- please use 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.