

## CRT Series Datasheet

Over Temperature Protector Resistors  
Power | Fuse

### FEATURES

- All welded construction
- RoHs Compliant
- UL 1412
- Withstand up to 2[KV] surge voltage
- One piece hybrid component

### APPLICATIONS

- Industrial
- Charger
- Alternative Energy
- Power Supply
- Home Appliances
- Automotive

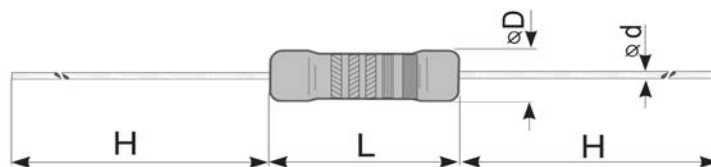
### ORDERING CODE - Example

<b>CRT</b>	<b>100</b>	<b>J</b>	<b>T</b>	<b>B</b>	<b>10R</b>
Type	Power rating (100 = 1W) (200 = 2W)	Tol. (F = ±1%) (J = ±5%)	T = Tape (ammo pack)	Mark of fusing protector	R-Value

### ELECTRICAL SPECIFICATIONS

Type		CRT100	CRT200
Nominal Power Rating $P_{70}$	[W]	1	2
Resistance Range	[Ω]	1R ... 100R	1R ... 200R
E-Series (preferred)		(Other values upon request) E24 (Other upon request)	
Tolerances	±[%]	F = 1% ; J = 5%	
Temperature Coefficient	[ppm/°C]	±300 (Standard) ±5000 (Only for NiFe alloy wire types)	
Temperature Fusing Range	[°C]	+187 ... +221	
Max. working voltage	[V] <sub>RMS</sub>	$\sqrt{P_{70} \times R}$	
Dielectric withstanding voltage IEC115-1 clause 4.7 (1[min])	[V] <sub>RMS</sub>	500	
Insulation resistance IEC60115-1 clause 4.6	[MΩ]	> 100	

### DIMENSIONS [mm]



Type	L	Ø D	H	Ø d
<b>CRT100</b>	11 +1/-0,5	4,0 ±0,2	26 ±2,0	0,55 ±0,05
<b>CRT200</b>	12 +1/-0,5	4,8 ±0,2	26 ±2,0	0,75 ±0,10

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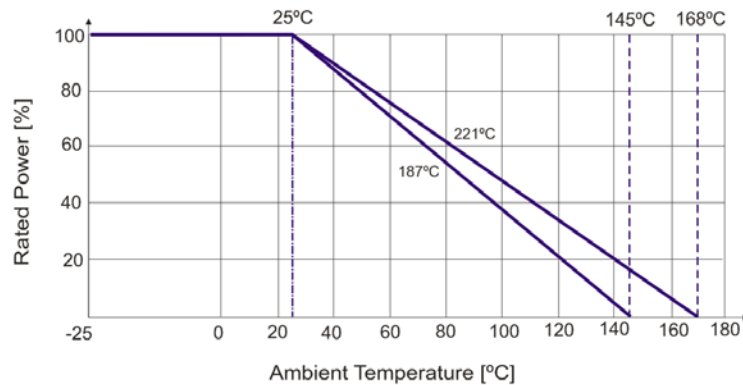
### PERFORMANCE DATA

Surge voltage withstanding <i>IEC61000-4-5</i> <i>1.2/50 μs (20 pulses, 60[s])</i>	±[%]	5,0
Short Time Overload <i>IEC60115-1 clause 4.13</i> <i>(U=2*√P<sub>70</sub>*R, 5[s])</i>	±[%]	2,0
Resistance to soldering heat <i>IEC60115-1 clause 4.18</i> <i>(255<sup>±2</sup>[°C], 2<sup>+0,5</sup>[s]), 2.5~3.5[mm].</i>	±[%]	1,0
Terminal strength <i>60[s]</i>	[N]	10
Marking <i>IEC60062</i>		Colour code (5th band for Fuse characteristics)

### FUSE CHARACTERISTICS

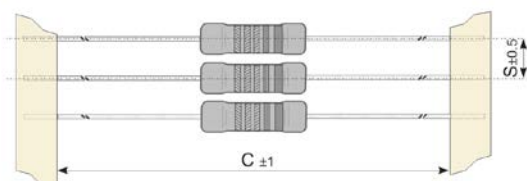
Fusing Protector Mark	Fuse Standard Current [A]	Functioning Temperature [°C]	Color code ring
A	3A	221 +5 / -10	Black
B	2A	221 +5 / -10	Brown
C		187 +5 / -10	Red
D	3A	187 +5 / -10	Orange
Short-circuit test Voltage		250V	

### DERATING CURVE



### PACKAGING

The standard packaging for CRT dimensions below.



Packaging	Pieces	Pack Code	C	s
Taped Ammo pack	1000	T	52,4	5