



CRT Series Datasheet

Over Temperature Protector Resistors
Power | Fuse

ORDERING CODE-Example

CRT	100	J	T	-	52-	10R	AA
Type	Power rating 100 = 1W 200 = 2W	Tol. F = ±1% J = ±5%	Pack-Code T = Tape (ammo pack)	Fusing marking - Base on spec.	Forming type 52- Inner Taping dimension	R Value	Special AA = Standard

APPLICATIONS

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

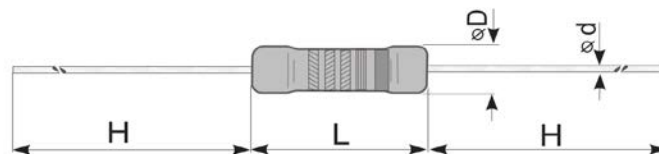
FEATURES

- All welded construction
- UL1412 qualified
- Withstand up to 2[KV] surge voltage
- RoHs Compliant

ELECTRICAL SPECIFICATIONS

Type		CRT100	CRT200
Nominal Power Rating P_{25}	[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] _{RMS}	$\sqrt{P_{70} \times R}$	
Dielectric withstanding voltage IEC115-1 clause 4.7 (1[min])	[V] _{RMS}	500	
Insulation resistance IEC60115-1 clause 4.6	[MΩ]	> 100	

DIMENSIONS [mm]



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

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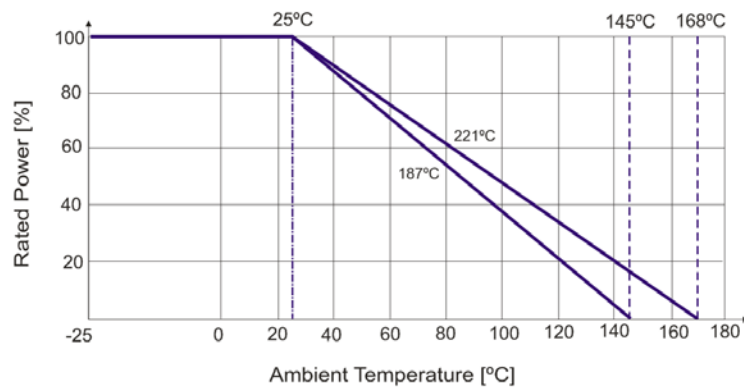
PERFORMANCE DATA

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>($U=2*\sqrt{P_{70} \times R}$, 5[s])</i>	±[%]	2,0
Resistance to soldering heat <i>IEC60115-1 clause 4.18</i> <i>(255^{±2}[°C], 2^{±0,5}[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

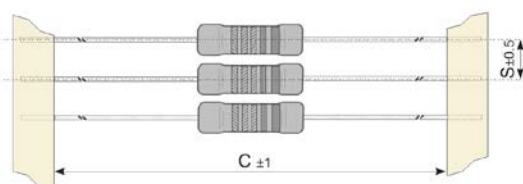
Fusing Protector Mark	Fuse Standard Current [A]	Functioning Temperature [°C]	Color code ring
- (based on spec)	2A	221 +5 / -10	Brown
K	3A	221 +5 / -10	Black
L	2A	187 +5 / -10	Red
M	3A	187 +5 / -10	Orange
Short-circuit test Voltage		250V	

DERATING CURVE



PACKAGING

The standard packaging for CRT dimensions below.



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