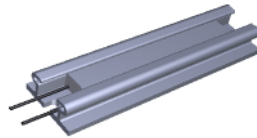


## Brake resistor PTC – 70 Watt PTC80064x – 175 R

### Description:

Self protecting PTC resistor element (in an aluminium casing) with a very high threshold limit voltage; protection according to IP20.



### Technical data:

Parameters	Symbol	Value	Unit	Comment
Length	L	124,0 ± 0,5	mm	PTC800640, PTC800641 and PTC800644
		115,0 ± 0,5	mm	PTC800642 and PTC800643
Width	W	34,0 ± 0,3	mm	
Height	H	11,5 ± 0,5	mm	PTC800640, PTC800641 and PTC800644
		10,5 ± 0,5	mm	PTC800642 and PTC800643
Lead length		450	mm	PTC800640
		170	mm	PTC800644
		100	mm	PTC800641 and PTC800642
		500	mm	PTC800643
Operating voltage	U <sub>B</sub>	600 AC 850 DC	V	
Threshold limit voltage	U <sub>BD</sub>	1100 DC	V	<b>Caution:</b> Abruptly low resistance
Surface temperature at constant load with U <sub>N</sub>	T <sub>0</sub>	175 ± 10K	°C	The temperature will stay within the tolerance at a constant load of 500 VAC
Transiston temperature	CP	140	°C	Depending from the material, describes the temperature at which the resistance reaches two times the rate of its lowest value
Cold resistance at 25°C	R <sub>25</sub>	175	Ω	<b>Caution:</b> the dynamic value depends from the impedance and the temperature of the PTC (cf. the characteristic curve of R(T))
Tolerance of resistance	ΔR <sub>25</sub>	± 35	%	<b>Caution:</b> Typical for thermistors and not reducable.
Representative continuous rating	P <sub>D</sub>	20 70	W	free convection on heatsink (70°C)
Energy consumption	Q	960	J (Ws)	with 1,2s (1% ED)
Representative pulse rating at a time of 1 ms	P <sub>i</sub>	>20	kW	Value in approximation
Approval				c CSA us (Standard CSA-C22.2 u. UL 508)

