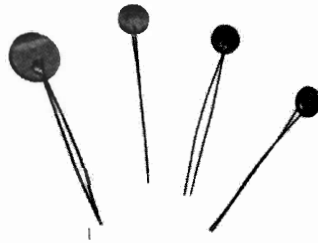


non-linear resistors

NTC thermistors

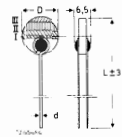


2322 643 1
2322 644 1 – disc
2322 644 9

2322 643 1 and 2322 644 1

Resistance range at 25 °C	150 to 4700 Ω	
Operating temperature range at zero power	– 25 to +125 °C	
2322 ..	643	644
Dissipation at 25 °C max	1	1,5 W
Thermal time constant	55	120 s

Coloured bands give last three digits of catalogue no. I and II follow standard colour code. III is standard except: gold = 8, black = 9



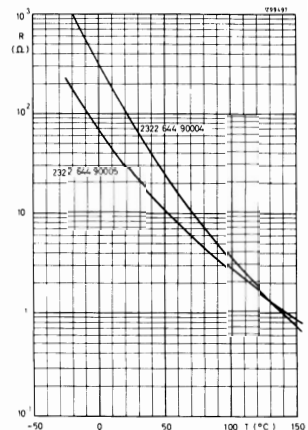
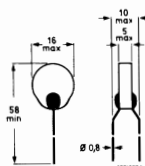
Example
152 = brown, green, red

P_{max} W	R_{25} Ω	$B_{25/85}$ ± 5% K	catalogue no.	tolerance on R_{25} :
1	150	3500	2322 643 1	151
	470	3750		471
	1500	4000		152
	4700	4200		472
1,5	150	3600	2322 644 1	151
	470	3900		471
	1500	4200		152
	4700	4300		472

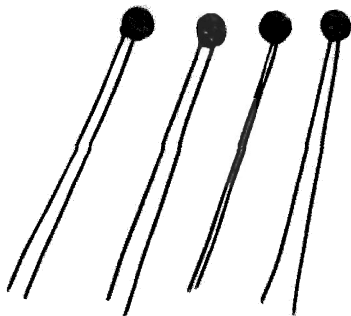
	D	L	d
2322 643	9 ± 0,5	54	0,6
2322 644	15 ± 0,7	58	0,8

2322 644 9 for surge limitation in tv

Catalogue no. 2322 644	90004	90005
Resistance at 25 °C	82 (± 20%)	> 15 Ω
at $T_{amb} = 25 °C$; $I_{rms} = 1,7 A$	< 0,85	– Ω
$= 2,2 A$	–	< 1 Ω
Dissipation factor	19	17 mW/°C
$B_{25/85}$	4650	3350 K
Repetitive peak voltage (50–60 Hz) max	345	380 V
Thermal time constant	115	148 s
Operating temperature range		
at zero power	– 25 to +155	°C
at max power	0 to + 55	°C



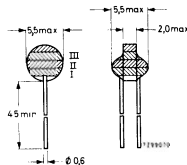
2322 642 1 – disc



Resistance range (E6 series) at 25 °C	3,3 Ω to 330 kΩ
Dissipation at 55 °C max	0,5 W
Thermal time constant, free air approx.	25 s
Operating temperature range at zero power	-25 to +125 °C

Coloured bands give last three digits of catalogue no. I and II follow standard colour code. III is standard except: gold = 8, black = 9.

Example
338 = orange, orange, gold



R25	B25/85 + 5%	catalogue no.
3,3 Ω	2600	2322 642 1 . 338
4,7	2665	1 . 478
6,8	2730	1 . 688
10	2800	1 . 109
15	2870	1 . 159
22	2935	1 . 229
33	3010	1 . 339
47	3070	1 . 479
68	3135	1 . 689
100	3200	1 . 101
150	3280	1 . 151
220	3350	1 . 221
330	3440	1 . 331
470	3520	1 . 471
680	3600	1 . 681
1 kΩ	3680	1 . 102
15	3775	1 . 152
22	3915	1 . 222
33	4070	1 . 332
47	4200	1 . 472
68	4300	1 . 682
10	4400	1 . 103
15	4375	1 . 153
22	4200	1 . 223
33	4250	1 . 333
47	4325	1 . 473
68	4375	1 . 683
100	4400	1 . 104
150	4600	1 . 154
220	4650	1 . 224
330	4700	1 . 334

tolerance on R25:

- 20% (untipped) 1
- 10% (silver tipped) 2
- 5% (gold tipped) 3

