

4. TERMISTORY

Wykaz oznaczeń parametrów technicznych

B	stała materiałowa
k	współczynnik strat
P_{tot}	moc całkowita
R_{25}	rezystancja nominalna
t_{amb}	temperatura otoczenia
α_{25}	temperaturowy współczynnik rezystancji

4.1. Termistory NTC

Oznaczenie wyrobu	Parametry dopuszczalne		Parametry charakterystyczne / $t_{amb} = 25^{\circ}C$ /				
	P_{tot}	t_{amb}	R_{25}	Tolerancja	α_{25}	B	k
	mW	$^{\circ}C$	$\Omega / k\Omega /$	$\% / \Omega /$	$\% / K$	K	$mW / ^{\circ}C$
1	2	3	4	5	6	7	8
NTC 21	< 56	-25 ... +200	/10; 15, 22, 33, 47/	± 20	-4,3 $\pm 5\%$	3800 $\pm 5\%$	0,24 $\pm 20\%$
NTC 110	< 800	-25 ... +100	4,7; 5,6; 6,8; 8,2; 10	± 10	-3,0 $\pm 5\%$	2660	<div> <div>12 $\pm 20\%$</div> <div>10 $\pm 20\%$</div> <div>$\geq 8 \pm 20\%$</div> </div> <div> <div>2,2; 3,3</div> <div>4,7 + 4700</div> <div>/5,6 + 33/</div> </div>
			2,2; 3,3; 12; 15; 18;	± 10	-3,2 $\pm 5\%$	2840	
			22	± 20	-3,0 $\pm 5\%$	2660	
			4,7; 6,8; 10	± 20	-3,2 $\pm 5\%$	2840	
			2,2; 15; 22	± 20	-3,8 $\pm 5\%$	3370	
			27; 33; 39; 47; 56; 68	± 10	-3,8 $\pm 5\%$	3370	
	< 500	-25 ... +100	33; 47; 68	± 20	-4,0 $\pm 5\%$	3530	
			82; 100; 120; 150; 180;	± 10	-4,0 $\pm 5\%$	3530	
			220	± 20	-4,5 $\pm 5\%$	4000	
			100; 150; 220	± 20	-4,5 $\pm 5\%$	4000	
			270; 330; 390; 470; 560;	± 10	-4,5 $\pm 5\%$	4000	
			680; 820; 1000; 5600	± 20	-4,7 $\pm 5\%$	4170	
	< 800	-25 ... +100	330; 470; 680; 1000;	± 20	-4,7 $\pm 5\%$	4170	<div> <div>12 $\pm 20\%$</div> <div>10 $\pm 20\%$</div> <div>$\geq 8 \pm 20\%$</div> </div> <div> <div>2,2; 3,3</div> <div>4,7 + 4700</div> <div>/5,6 + 33/</div> </div>
			/6,8; 8,2; 10; 12/	± 10	-4,85 $\pm 5\%$	4350	
			/6,8; 10/	± 20	-4,85 $\pm 5\%$	4350	
	< 500	-25 ... +100	/1,2; 1,5; 1,8; 2,2;	± 10	-4,85 $\pm 5\%$	4350	<div> <div>12 $\pm 20\%$</div> <div>10 $\pm 20\%$</div> <div>$\geq 8 \pm 20\%$</div> </div> <div> <div>2,2; 3,3</div> <div>4,7 + 4700</div> <div>/5,6 + 33/</div> </div>
			2,7; 3,3; 3,9; 4,7/	± 20	-4,85 $\pm 5\%$	4350	
	< 500	-25 ... +100	/1,5; 2,2; 3,3; 4,7/	± 10	-4,85 $\pm 5\%$	4350	<div> <div>12 $\pm 20\%$</div> <div>10 $\pm 20\%$</div> <div>$\geq 8 \pm 20\%$</div> </div> <div> <div>2,2; 3,3</div> <div>4,7 + 4700</div> <div>/5,6 + 33/</div> </div>
			/15; 18; 22; 33/	± 20	-4,85 $\pm 5\%$	4350	
	< 500	-25 ... +100	/15; 22; 33/	± 20	-4,85 $\pm 5\%$	4350	<div> <div>12 $\pm 20\%$</div> <div>10 $\pm 20\%$</div> <div>$\geq 8 \pm 20\%$</div> </div> <div> <div>2,2; 3,3</div> <div>4,7 + 4700</div> <div>/5,6 + 33/</div> </div>
				± 20	-4,85 $\pm 5\%$	4350	

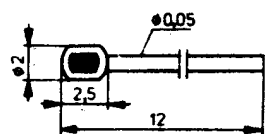
1	2	3	4	5	6	7	8	9
NTC 111	< 1000	-25 ... +100	32	+10 / -6	-4,7 ±10%	4200 ±10%	13 ±20%	
NTC 120	< 1500	-25 ... +100	4,7; 5,6; 6,8; 8,2; 10 4,7; 6,8; 10 2,2; 3,3; 12; 15; 18; 22 2,2; 15; 22 27; 33; 39; 47; 56; 68 3,3; 47; 68 82; 100; 120; 150; 180; 220 100; 150; 220 270; 330; 390; 470; 560; 680; 820; 1000; 5600 330; 470; 680; 1000 /6,8; 8,2; 10; 12/ /6,8; 10/ /1,2; 1,5; 1,8; 2,2; 2,7; 3,3; 3,9; 4,7/ /1,5; 2,2; 3,3; 4,7/ /15; 18; 22/ /15; 22/	±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20 ±10 ±20	-3,0 ±5% -3,0 ±5% -3,2 ±5% -3,2 ±5% -3,8 ±5% -3,8 ±5% -4,0 ±5% -4,0 ±5% -4,5 ±5% -4,5 ±5% -4,7 ±5% -4,7 ±5% -4,85 ±5% -4,85 ±5%	2660 2660 2840 2840 3370 3370 3550 3550 4000 4000 4000 4170 4170 4350 4350	≥ 20 ±20% 18 ±20%	4,7 ÷ 4700 /5,6 ÷ 22/

1	2	3	4	5	6	7	8	9
NTC 210	< 175	-25 ... +200	/10; 15; 22; 33; 47/ /100; 150; 220/	±20	-4,3 ±5%	3800	1	
NTC 211	< 175	-25 ... +200	/100; 150; 220/	±20	-4,3 ±5%	3800 ±5%	1	
NTC 212	< 60	-25 ... +200	/1,0; 1,5; 2,2; 3,3; 4,7/	±20	-4,5 ±5%	4000	0,5 ±20%	
NTC 213	< 260	-25 ... +200	/10; 15; 22; 33; 47/	±20	-4,3 ±5%	3800 ±5%	1,5 ±20%	
NTC 214	< 62	-25 ... +125	/470/	±20	-4,65 ±5%	4100	0,62 ±20%	
NTC 215	< 80	-25 ... +200	/10; 15; 22; 33; 47; 68/	±20	-4,3 ±5%	3820 ±5%	0,7	
NTC 216	< 100	-25 ... +100	/28/	±12	-4,3 ±2%	3800 ±5%	2,0 ±20%	
NTC 220	< 4,5	-25 ... +200	/100; 150; 220; 330/	±20	-4,3 ±5%	3800	0,025	
NTC 221	< 20	-25 ... +200	/33; 47; 68/	±20	-4,3 ±5%	3800	0,11	
NTC 230	< 45	-25 ... +200	/1,0; 1,5; 2,2; 3,3; 4,7/	±20	-4,5 ±5%	4000	0,6	
NTC 501	60 ^{1/}	-40 ... +160	100 ^{2/} ; 120 ^{2/} ; 150 ^{2/} 2100	±10 /±170/	-4,43 ±2%	3930		

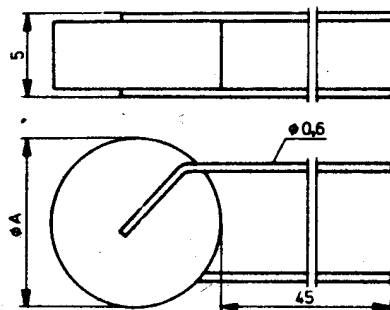
1/ moc grzejnika

2/ rezystancja grzejnika

4.2. Rysunki obudów

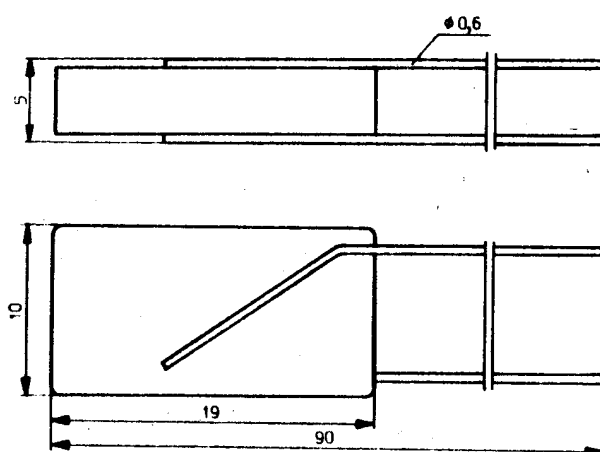


NTC21

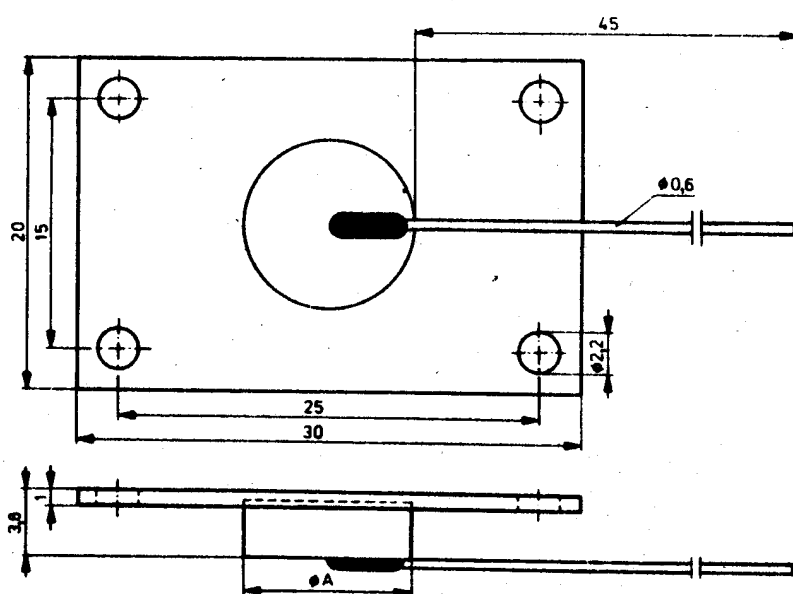


NTC110

	A [mm]
2,2 i 3,3 Ω	≤ 12
4,7 Ω .. 4,7 k Ω	≤ 10
5,6 ... 33 k Ω	≤ 6

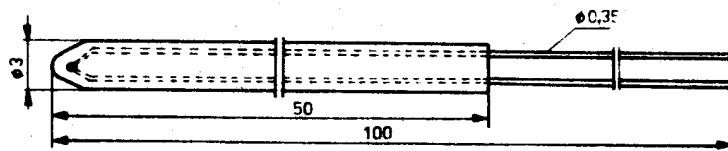


NTC111

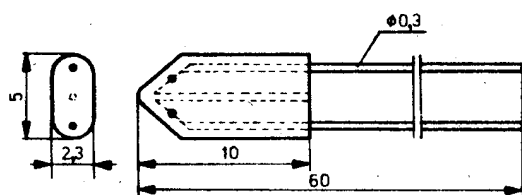


NTC120

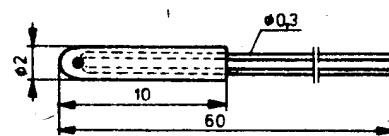
	A [mm]
4,7 Ω ... 4,7 k Ω	≤ 10
5,6 ... 22 k Ω	≤ 5



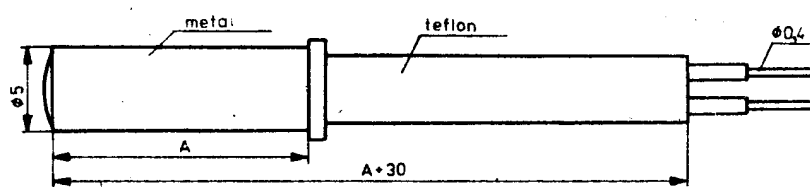
NTC210



NTC211

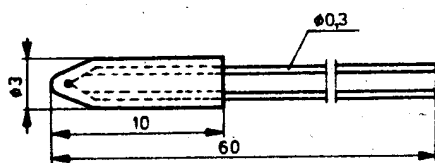


NTC212

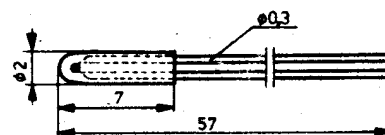


NTC213

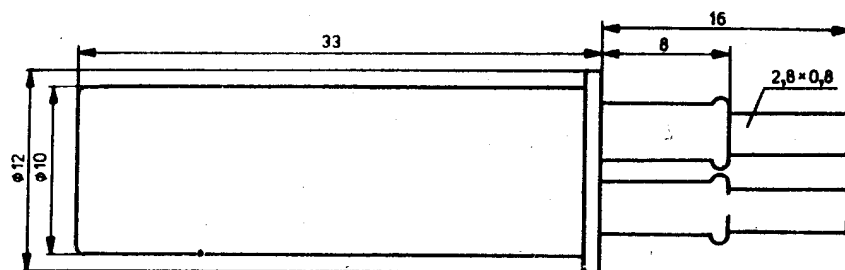
	A [mm]
Wersja I	15
Wersja II	42



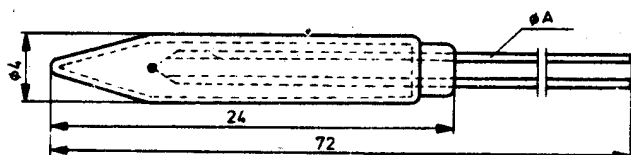
NTC214



NTC215

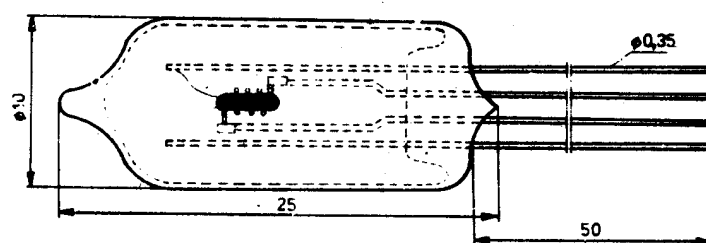


NTC 216

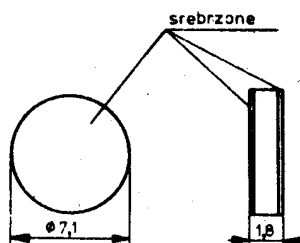


	A [mm]
NTC220	0,25
NTC221	0,35

NTC220 i 221



NTC230



NTC501

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Datasheets for electronics components.