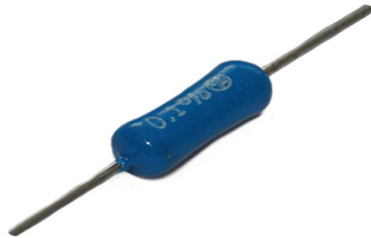


# Resistors

Precision - Metal Film Resistor

NC550 - series



- Precision Resistor for universal Purposes
- Any Value from 3Ω - 5MΩ
- Standard TCR ±3ppm/K
- Power Rating 0,6 Watts at 40°C
- Also available in MELF, Size 0207
- Low Inductance
- Pre - Loaded (Option)

Specification		NC550				
Resistance Range	2Ω - 5MΩ					
Power	0,6 Watts at 40°C					
Operating Voltage	300 (max.)					
Tolerance	0,05%	0,1%	0,25%	0,5%	1%	
Temperature Coefficient ±3ppm/K	50Ω - 120KΩ	30Ω - 200KΩ	30Ω - 200KΩ	30Ω - 200KΩ		
Temperature Coefficient ±5ppm/K	50Ω - 250KΩ	10Ω - 500KΩ	10Ω - 500KΩ	10Ω - 500KΩ		
Temperature Coefficient ±10ppm/K	50Ω - 510KΩ	5Ω - 1MΩ	5Ω - 1MΩ	5Ω - 1MΩ		
Temperature Coefficient ±15ppm/K	50Ω - 510KΩ	5Ω - 1,5MΩ	5Ω - 2MΩ	5Ω - 2MΩ	3Ω - 2MΩ	
Temperature Coefficient ±25ppm/K	50Ω - 510KΩ	5Ω - 3MΩ	3Ω - 3MΩ	3Ω - 5MΩ	3Ω - 5MΩ	
Temperature Range	-25°C to +125°C					
Insulation Resistance	10GOhm					

Mechanical Data	
Resistance Element	NiCr
Carrier	Ceramic Bobbin
Size	0207
Leads	Copper, Tin plated

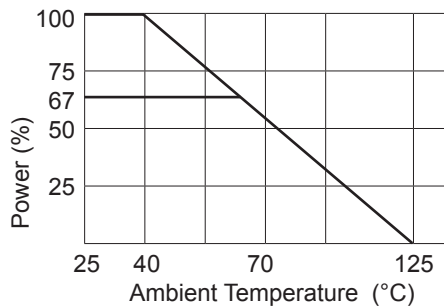
Parameter	Test	NC 550
Overload	2,5 x Related Power, 5 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Solderability	230°C, 2 sec.	≥95% Abdeckung
Soldering Heat Resistance	260°C, 10 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Quick Temperature Change	-65°C to +155°C, 5x	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Damp Heat, Constant	40°C, 90% r. H., 56 d	$\Delta R \leq \pm (0,5\%R + 0,05\Omega)$
Stability (70°C)	max. Power, 1000h	$\Delta R \leq \pm (0,5\%R + 0,05\Omega)$
Endurance at (70°C)	max. Power, 8000h	$\Delta R \leq \pm (1,0\%R + 0,05\Omega)$
Insulation Resistance		>750V
limatic Category		55 / 125 / 56

# Resistors

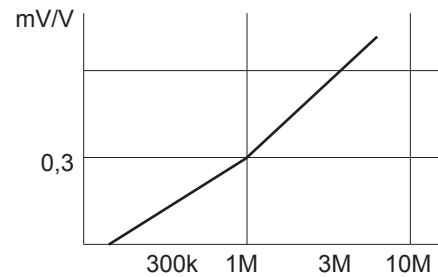
## Precision - Metal Film Resistor

NC550 - series

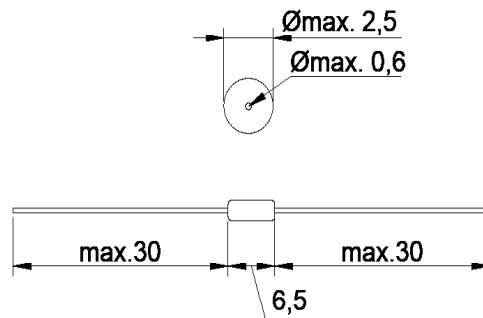
### Power Derating Curve



### Current Noise



### Technical Drawing



All Dimensions in mm

### Options

Pre - loaded (V)	Related Power / Related Voltage 100h pre loaded
MELF 0207 (M)	Size MELF 0207
Taping (G), Width 65mm, Step 5mm	Minimum Order Quantity 300 pieces

### Ordering Information

NC550	W0,1%	TK10	10k000	G
Type	Resistance Tolerance	Temperature Coefficient	Resistance Value	Options
	3Ω - 5M: ±0,25; ±0,5; ±1	30Ω - 200k: ±3ppm	(3Ω - 5M)	Pre - Loade: V
	5Ω - 3M: ±0,1; ±0,25; ±0,5; ±1	10Ω - 500Ω: ±5ppm		MELF 0207: M
	50Ω - 510k: ±0,05; ±0,1; ±0,25; ±0,5; ±1	5Ω - 1M: ±10ppm		Taping: G
		5Ω - 2M: ±15ppm		
		3Ω - 5M: ±25ppm		

Note: All specifications and information in this data sheet are not considering customer's special requirements. All containing information of this data sheet are not a binding description of the product's properties. MEGATRON is not responsible for any damage caused by an improper use of the product. The customer has the responsibility to check the usability of the product in his application. MEGATRON does not guarantee the reproducibility of their publications.