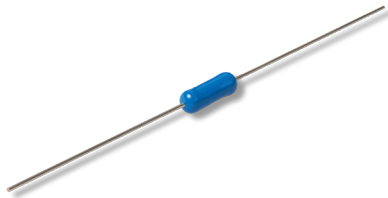


Resistors

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

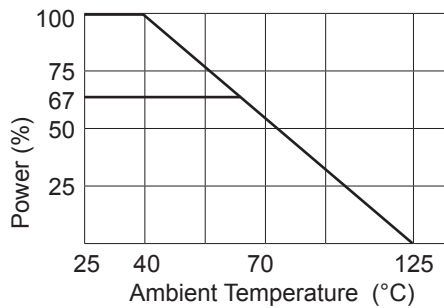
Parameter	Test	NC 550
Overload	2,5 x Related Power, 5 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Solderability	230°C, 2 sec.	≥95% Abdeckung
Soldering Heat Resistance	260°C, 10 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Quick Temperature Change	-65°C to +155°C, 5x	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
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

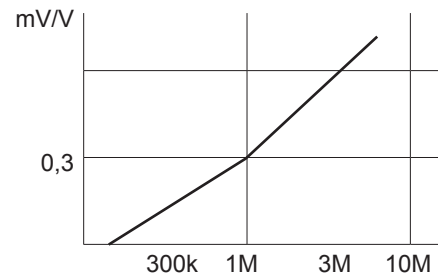
Precision - Metal Film Resistor

NC550 - series

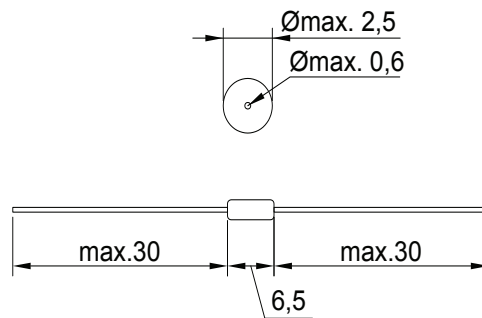
Power Derating Curve



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		