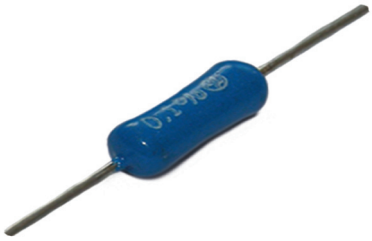
Resistors

Precision - Metal Film Resistor — NC617 - series



- Precision Resistor for universal Purposes
- Any Value from 20Ω - 5MΩ
- Standard TCR ±10ppm/K
- Power Rating 1,0 Watts at 40°C
- Low Inductance
- Pre - Loaded (Option)

Specification	NC617				
Resistance Range	20Ω - 5MΩ				
Power	1,0 Watts at 40°C				
Operating Voltage	500 (max.)				
Tolerance	0,05%	0,1%	0,25%	0,5%	1%
Temperature Coefficient ±10ppm/K	240Ω - 250KΩ	100Ω - 250KΩ	50Ω - 250KΩ	20Ω - 510KΩ	20Ω - 510KΩ
Temperature Coefficient ±15ppm/K	240Ω - 250KΩ	100Ω - 250KΩ	50Ω - 250KΩ	20Ω - 510KΩ	20Ω - 510KΩ
Temperature Coefficient ±25ppm/K	240Ω - 510KΩ	50Ω - 1MΩ	50Ω - 2MΩ	20Ω - 5MΩ	10Ω - 5MΩ
Temperature Range	-25°C to +125°C				
Insulation Resistance	10GOhm				

Mechanical Data	
Resistance Element	NiCr
Carrier	Ceramic Bobbin
Size	617
Leads	Cupper, Tin plated

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

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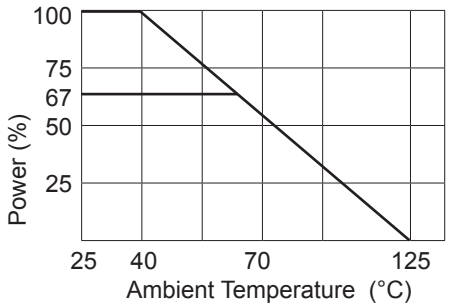
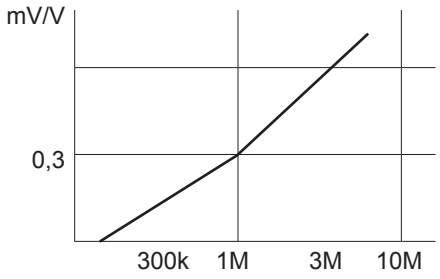
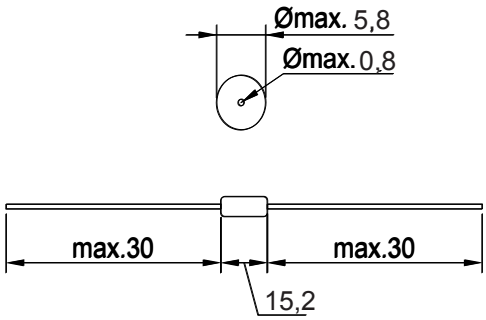
Power Derating Curve



Current Noise



Technical Drawing



All Dimensions in mm

Options

Pre - loaded (V)	Related Power / Related Voltage 100h pre loaded
Taping (G), Width 85mm, Step 10mm	Minimum Order Quantity 300 pieces

Ordering Information

NC617	W0,1%	TK10	10k000	G
Type	**Resistance Tolerance**	**Temperature Coefficient**	**Resistance Value**	**Options**
	10Ω - 5M: ±1 20Ω - 5M: ±0,5; ±1 50Ω - 5M: ±0,1; ±0,25; ±0,5; ±1 240Ω - 510k: ±0,05	20Ω - 510k: ±10ppm 20Ω - 510k: ±15ppm 10Ω - 5M: ±25ppm	(10Ω - 5M)	Pre - Loaded: V Taping: G

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.

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