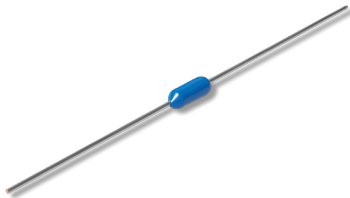


Resistors

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	Copper, Tin plated

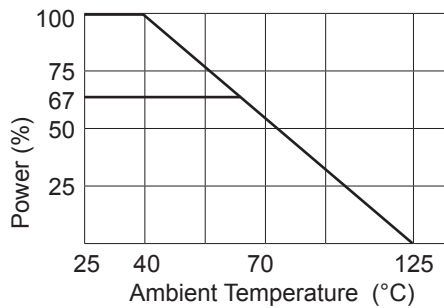
Parameter	Test	NC 550
Overload	2,5 x Related Power, 5 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Solderability	230°C, 2 sec.	$\geq 95\%$ Abdeckung
Soldering Heat Resistance	260°C, 10 sec.	$\Delta R \leq \pm (0,1\%R + 0,01\Omega)$
Quick Temperature Change	-65°C to +155°C, 5x	$\Delta R \leq \pm (0,1\%R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

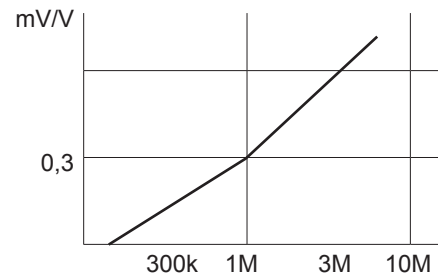
Precision - Metal Film Resistor

NC617 - series

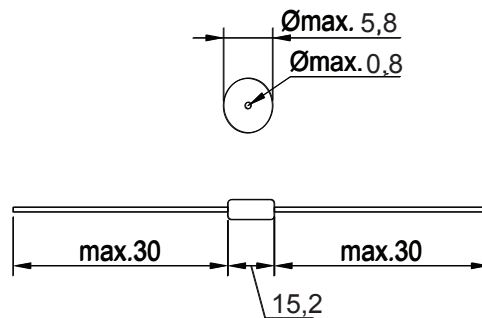
Power Derating Curve



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 - 510k: ± 10 ppm	(10Ω - 5M)	Pre - Load: V
	20Ω - 5M: $\pm 0,5; \pm 1$	20Ω - 510k: ± 15 ppm		Taping: G
	50Ω - 5M: $\pm 0,1; \pm 0,25; \pm 0,5; \pm 1$	10Ω - 5M: ± 25 ppm		
	240Ω - 510k: $\pm 0,05$			