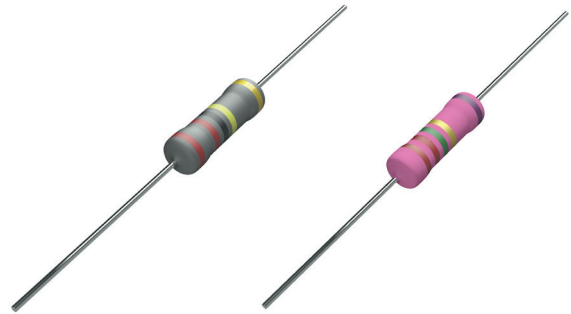


LOF - Series

Power Metal Glaze Leaded Resistors

FEATURES

- Resistance 0,1Ω to 22MΩ
- Operating Voltage up to 1000V
- Power Rating to 7 Watts
- High Pulse Loading Capability
- Long Term Stability
- RoHS - compliant



RATED VALUES (IEC 60115-1)

Resistance Range	Ω	0,1KΩ to 22MΩ (see Tolerance- / Resistance Range)
Resistance Tolerance	%	±1%; ±2%; ±5%
Temperature Coefficient	ppm/°C	±200ppm/°C
Operating Voltage (U _{max})	V	1.000V or $\sqrt{(P \times R)}$
Dielectric Strength	V	750V, see table below
Insulation Resistance (R _{ins})	Ω	>1GΩ
Operating Temperature Range (T)	°C	-55°C to 150°C

Typ	U _{max} (V _{DC})	U _{Overload} ** (V)	U _{ins} (V)	Power P ₇₀ (W)	Tolerance- / Resistance Range*		
					±5,0% / Ω	±2,0% / Ω	±1,0% / Ω
LOF0623	250	400	350	0,50	1R000 - 20M00	0R100 - 10M00	0R100 - 10M00
LOF0932	300	500	400	1,00	1R000 - 20M00	0R100 - 10M00	0R100 - 10M00
LOF1145	500	600	500	2,00	1R000 - 20M00	0R100 - 10M00	0R100 - 10M00
LOF1550	750	800	600	3,00	1R000 - 20M00	0R100 - 10M00	0R100 - 10M00
LOF1765	1000	1000	750	5,00	1R000 - 1M000	0R100 - 550K0	0R100 - 450K0
LOF2485	1000	1000	750	7,00	1R000 - 1M000	0R100 - 550K0	0R100 - 450K0

*E24 and E96, other values on request

** The following applies: rated value U_{overload} or $\sqrt{(P \times R)}$

CONSTRUCTION

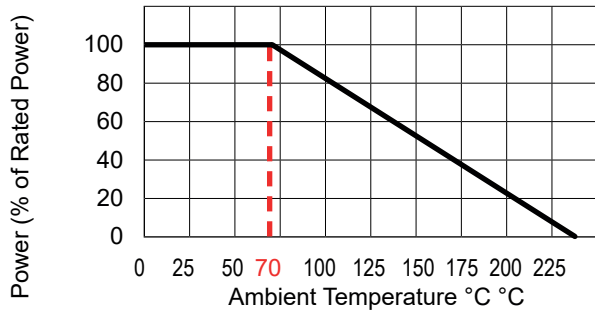
Resistance Material	Metal Glaze (Metal Compound, Borosilicate)
Carrier Material	High Purity Ceramic (Alumina)
Coating	Epoxy* grey or pink coloured
Lead Wires	Tin Plated Copper Wire
Marking	Colour Ring - Coding in accordance with IEC 60062

*Cleaning with ethanol, isopropanol, methanol, water-based cleansing agents.
Pay attention to the different impact times of cleaners.

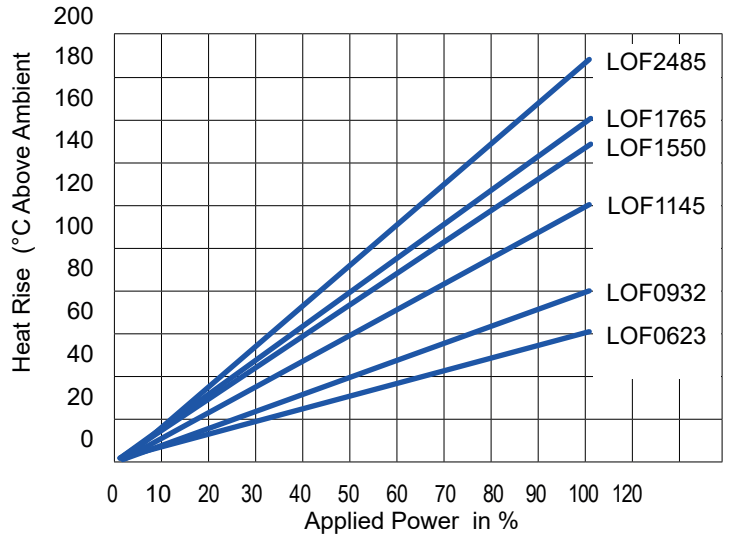
LOF - Series

Power Metal Glaze Leaded Resistors

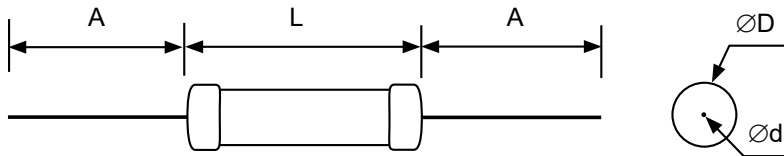
POWER DERATING CURVE



TEMPERATURE RISE



DIMENSIONS



	D	L	d	A
LOF0623	2,3 ±0,5	6,3 ±0,5	0,55 ±0,05	min. 26,0 +2,0
LOF0932	3,2 ±0,5	9,0 ±0,5	0,65 ±0,05	min. 26,0 +2,0
LOF1145	4,5 ±0,5	11,5 ±1,0	0,78 ±0,05	min. 32,0 +2,0
LOF1550	5,0 ±0,5	15,5 ±1,0	0,78 ±0,05	min. 32,0 +2,0
LOF1765	6,0 ±0,5	17,5 ±1,0	0,78 ±0,05	min. 35,0 +2,0
LOF2485	8,0 ±0,5	24,5 ±1,0	0,78 ±0,05	min. 35,0 +2,0

All Dimension in mm

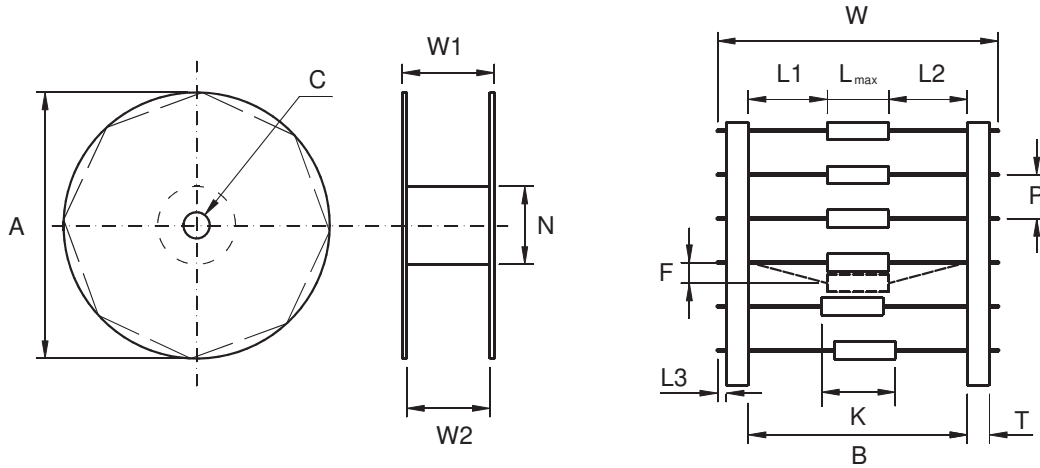
OPTIONS

Lead Wires	Pre-made/Custom-made Leads (on Request)
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LOF - Series

Power Metal Glaze Ledged Resistors

DIMENSIONS TAPE & REEL



Reel	A	C	N	W1	W2
12"	305,0 ±1,5	15,0 ±1,0	51,0 ±1,0	W2 +5...+8	B +1,5 ... +8

Tape	
Lead Extension (L3)	0,5 max.
Centring Tolerance (K)	±1,5
Tape (T)	5,0...6,5
Deflection (F)	1,2 max.
L1 = (B - L _{max} + L2) ±1,5	
L2 = (B - L _{max} + L1) ±1,5	

Diameter of Resistor Body - Spacing

Diameter of the Resistor Body (D)	≤ 5,0 ±0,5	> 5,0 ±0,5
Distance between Resistors (P)	5,0 ±0,5	10,0 ±0,5

All Dimension in mm

Tape Spacing

Type	LOF0623	0932	LOF1145	LOF1550	LOF1765	LOF2485
Type Spacing (B)	52,0	52,0	73,0	73,0	73	88

PACKAGING UNITS

Type	LOF0623	LOF0932	LOF1145	LOF1550	LOF1765	LOF2485
Quantity: Ammo Pack / T&R	5000/5000	1000/2500	1000/2000	1000/1000	500/1000	250/500

LOF - Series

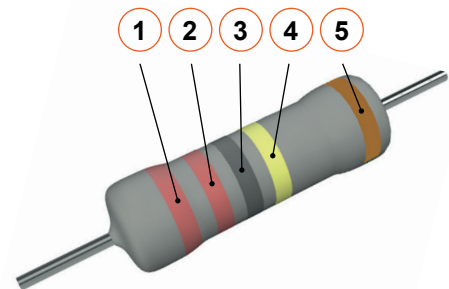
Power Metal Glaze Led Resistors

PERFORMANCE

IEC 60115-1	TEST	Conditions of Test	Specification ΔR
4.13	Short Time Overload	2,5 x Rated Operating Voltage U_{max} , 5s	$\pm(0,5\% R + 0,05\Omega)$
4.16	Terminal Strength	2,5 kg (Pull Test), max. 10 Sec.	
4.17	Solderability	245°C, max. 2 Seconds	95% contact coverage
4.18	Soldering Resistance	260 \pm 5°C, max. 2,5 Seconds	$\pm(1,0\% R + 0,05\Omega)$
4.23.2	Damp Heat	40 \pm 2°C; 90% - 100% r.F.; 1,5h „ON“ und 0,5h „OFF“, 1000h	$\pm(1,5\% R + 0,05\Omega)$
4.25	Endurance	+70°C, U_{max} 1,5h „ON“ and 0,5h „OFF“, 1000h	$\pm(1,5\% R + 0,05\Omega)$
4.39	Pulse Load	1,0 Sec. „ON“ / 25 Sec. „OFF“, 10 Cycles	$\pm(1,0\% R + 0,05\Omega)$
4.6	Insulation Strength	U_{ins} see Page 1	
	Storage Conditions	25 \pm 2°C, maximum 80% r.F.	

MARKING

Ring	5 Ring Marking			4 Ring Marking		
	1 - 3	4	5	1 - 2	3	4
Silver		$\times 10^{-2}$	$\pm 10,0\%$		$\times 10^{-2}$	$\pm 10,0\%$
Gold		$\times 10^{-1}$	$\pm 5,0\%$		$\times 10^{-1}$	$\pm 5,0\%$
Black	0	$\times 10^0$		0	$\times 10^0$	
Brown	1	$\times 10^1$	$\pm 1,0\%$	1	$\times 10^1$	$\pm 1,0\%$
Red	2	$\times 10^2$	$\pm 2,0\%$	2	$\times 10^2$	$\pm 2,0\%$
Orange	3	$\times 10^3$		3	$\times 10^3$	
Yellow	4	$\times 10^4$		4	$\times 10^4$	
Green	5	$\times 10^5$	$\pm 0,50\%$	5	$\times 10^5$	
Blue	6	$\times 10^6$	$\pm 0,25\%$	6	$\times 10^6$	
Violet	7	$\times 10^7$	$\pm 0,10\%$	7	$\times 10^7$	
Grey	8	$\times 10^8$		8	$\times 10^8$	
White	9	$\times 10^9$		9	$\times 10^9$	



Example: 2,2M Ω \pm 1%

ORDERING INFORMATION

LOF0623 100M00 1% TK100 E T (LOF0623 100M Ω ; \pm 1%; \pm 100ppm°C; Tape on Reel)

Type	Special	Resistance Value	Tolerance	Temperat. Coefficient	Power	Options	Packaging
LOF0623	-	1K0000 100K00 1M0000	1% 2% 5%	TK200	-	-	T - (T&R) A - Ammo Pack

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