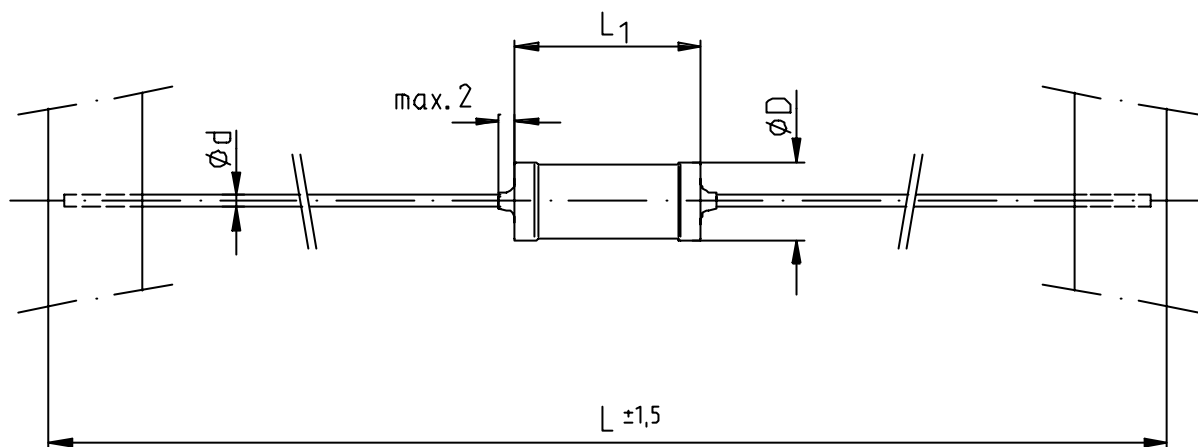


Power Metaloxide film resistor flame retardant

Specifications

Type		PO595-0	PO593-0	PO590-0	PO591-0
Style		0207	0414	0617	0922
Power rating P_{70}	W	1	2	3	4
Resistance range	W	see next page			
E-Series		see next page			
Tolerances	%	see next page			
Temperature coefficient	$10^{-6} \cdot K^{-1}$	see next page			
max. cont. work. voltage	V_{RMS}	500			750
Voltage coefficient	$10^{-6} V^{-1}$	< 3			
Insulation voltage (1min.)	V_{RMS}	500			
Insulation resistance	W	> $10^3 M$			
Derating	$^{\circ}C$	linear 70 ... 250 (0W)			
Climatic category		55/200/56			
Temperature range	$^{\circ}C$	- 55 ... 250			
Thermal resistance	KW^{-1}	<140	<130	<70	<60
Failure rate (Total, J_0 , max., 60% conf. lev.)	$10^{-9} \cdot h^{-1}$	< 10			
Endurance (P_{70} , @70 $^{\circ}C$, 1000h, interm.)	$\left[\frac{DR}{R}\right] \%$	$\pm 1,5$	$\pm 1,5$	$\pm 1,5$	$\pm 1,5$
Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d)	$\left[\frac{DR}{R}\right] \%$	$\pm 1,5$			
Climatic sequence	$\left[\frac{DR}{R}\right] \%$	$\pm 1,0$			
Terminal strength	$\left[\frac{DR}{R}\right] \%$	$\pm 0,3$			
Terminal tensile strength	N	40			
Resistance to soldering heat (260 $^{\circ}C$, 10s)	$\left[\frac{DR}{R}\right] \%$	$\pm 0,25$			
Solderability	s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T			
Current noise (DIN/IEC 195)	dB	$R < 15K: -15 \quad R > 15K: 15 + 10/decade$			
Nonlinearity (DIN/IEC 440)	dB	$R < 15K: 110 \quad R > 15K: 110 -20/decade$			
Marking		595/593: DIN-IEC-colour code, 4/5 bands 590/591: printed in clear			

Dimensions in mm:



PO595-0 Resistance range	PO593-0 Resistance range	PO590-0 Resistance range	PO591-0 Resistance range	E-series	Tolerance	TC 10^{-6} K^{-1}
0R22 ... 10M	0R22 ... 10M	0R22 ... 560K	0R22 ... 100K	E 24	$\pm 5\%$	± 200
-	1R ... 1M	1R ... 100K	1R ... 68K	E 48	$\pm 2\%$	± 200
10R ... 1M	-	-	-	E 96	$\pm 1\%$	± 50

Type	L_1 [mm]	$\varnothing D$ [mm]	$\varnothing d$ [mm]	$L \pm 1,5$ [mm]	Inside tape [mm]
PO595-0	6,3-1	2,5-0,5	$0,6 \pm 0,02$	65	52
PO593-0	12-1,5	4,1-0,5	$0,8 \pm 0,02$	85	73
PO590-0	16,5-1,5	6,0-0,5	$0,8 \pm 0,02$	95	77
PO591-0	20-1	9,0-0,5	$0,8 \pm 0,02$	95	77

Packaging:

Type	Packaging	Pieces	Pack.-Code
PO595-0	taped/Ammopack	2000	T
PO593-0	taped/Ammopack	1000	T
PO590-0	taped/Ammopack	1000	T
PO591-0	taped/Ammopack	500	T

Ordering example: PO593-0 5 T 10K
 Type Tolerance Pack.-Code R-Value