

Power Metal Oxide Film Resistors
Flameproof coating, UL 94 - V0
General Propose



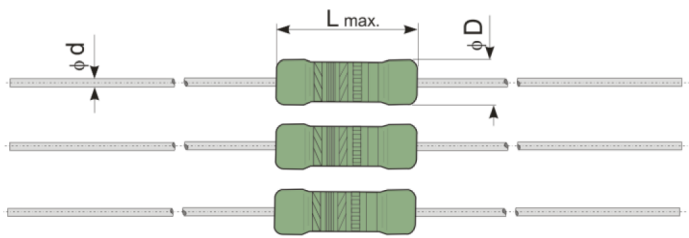
ELECTRICAL SPECIFICATIONS

Type		PO595-0	PO594-0	PO593-0	PO590-0	PO591-0
Style		0207	0410	0414	0617	0922
Nominal Power rating P_{70}	[W]	1		2	3	4
Resistance range	[Ω]	0R1...10M	0R1...10M	0R22...10M	0R22...560K	0R22...100K
E-Series		E24,E96		E24,E48	E24,E96	
Tolerances	[%]	±1, ±5			±2, ±5	
Temperature coefficient	[10 ⁻⁶ *K ⁻¹]	SEE NEXT PAGE				
Temperature range	[°C]	-55...+200	-55...+235		-55...+250	
Thermal resistance	[KW ⁻¹]	125	80	80	60	45
Insulation voltage (1min.) <i>IEC115-1 clause 2.2.17</i>	[V]	500				

PERFORMANCE DATA

Max. working voltage <i>IEC115-1 clause 2.2.16</i>	[V] _{RMS}	500		750		
Derating linear <i>IEC115-1 clause 2.2.24</i>	[°C]	SEE NEXT PAGE				
Climatic category <i>IEC68-1</i>		55/200/56				
Failure Rate <i>(Total, ϑ_0, max, 60% cont. lev.)</i>	[10 ⁻⁹ h ⁻¹]	<10				
Endurance <i>(P_{70} 70°C, 1000h) <i>IEC115-1 clause 4.25</i></i>	[ΔR/R] %	± 2,0		± 1,5		
Damp heat, steady state <i>(40°C, 93% r.h., 56d) <i>IEC115-1 clause 4.24</i></i>	[ΔR/R] %	± 2,0		± 1,5		
Climatic sequence <i>IEC115-1 clause 4.23</i>	[ΔR/R] %			± 1,0		
Terminal strength	[ΔR/R] %			± 0,3		
Terminal Tensile Strength	[N]			40		
Resistance to soldering heat <i>(260°C, 3,5s) <i>IEC115-1 clause 4.12</i></i>	[ΔR/R] %			± 0,25		
Solderability <i>IEC 60068-2-20-T</i>	[s]	2,5 Flowtime; solderglobule test				
Current noise <i>IEC 195</i>	[db]	R <15K: -15 R>: 15 +10 /decade				
Nonlinearity <i>IEC 440</i>	[db]	R <15K: 110 R> 15 K: 110 -20 /decade				
Marking		colour code, 4/5/6 bands			printed in clear	

DIMENSIONS [mm]

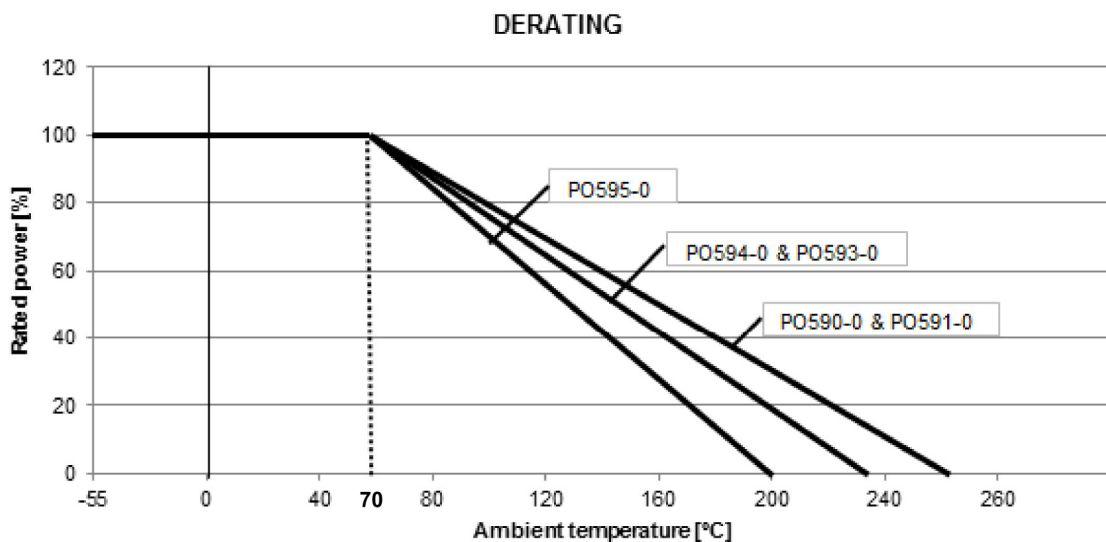


Type	L max	Ø D max	Ø d
PO595-0	6,3 ±0,5	2,4 ±0,2	0,6 -0,1
PO594-0	9,0 ±0,5	3,9 ±0,3	0,6 -0,1
PO593-0	11,5 ±1,0	4,5 ±0,5	0,8 ±0,05
PO590-0	16,5 -1,5	6,0 -0,5	0,8 ±0,05
PO591-0	20,0 -1	9,0 -0,5	0,8 ±0,05

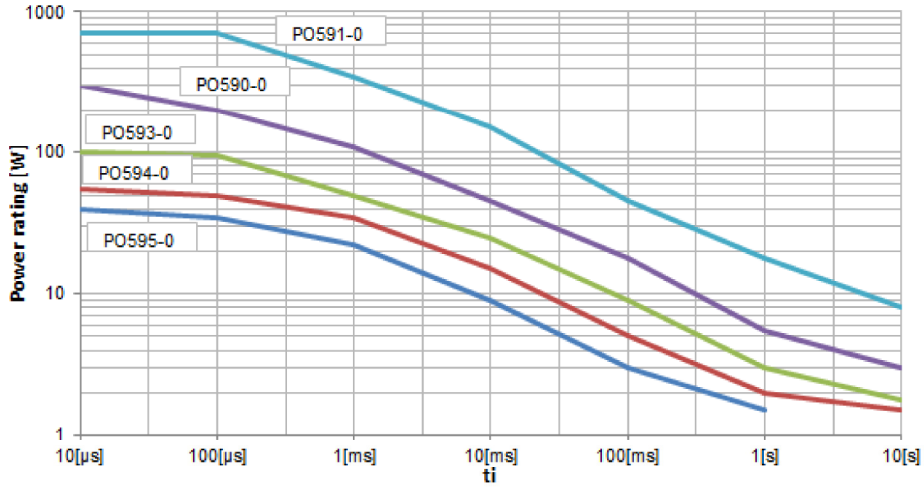
TEMPERATURE COEFICIENT

PO595-0 R-Value	PO594-0 R-Value	PO593-0 R-Value	PO590-0 R-Value	PO591-0 R-Value	E-series	Tolerance	TC [10 ⁻⁶ K ⁻¹]
-----	-----	0R22 ... 10M	0R22 ... 560K	0R22 ... 100K	E 24	± 5%	± 200
0R1 ... 10M	0R1 ... 10M	-----	-----	-----	E 24	± 5%	± 100
-----	-----	1R ... 1M	1R ... 100K	1R ... 68K	E 24 / E 48	± 2%	± 200
1R ... 10M	1R ... 10M	-----	-----	-----	E 24 / E 96	± 1%	± 50

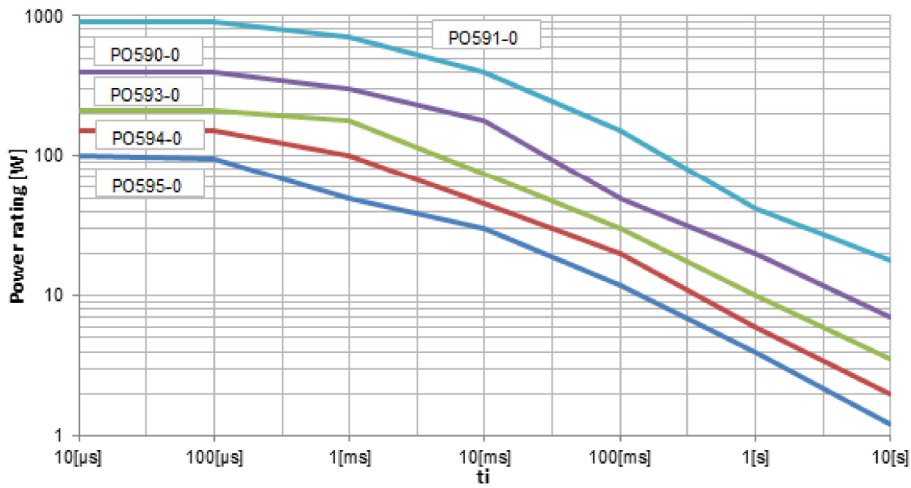
PERFORMANCE GRAPH's



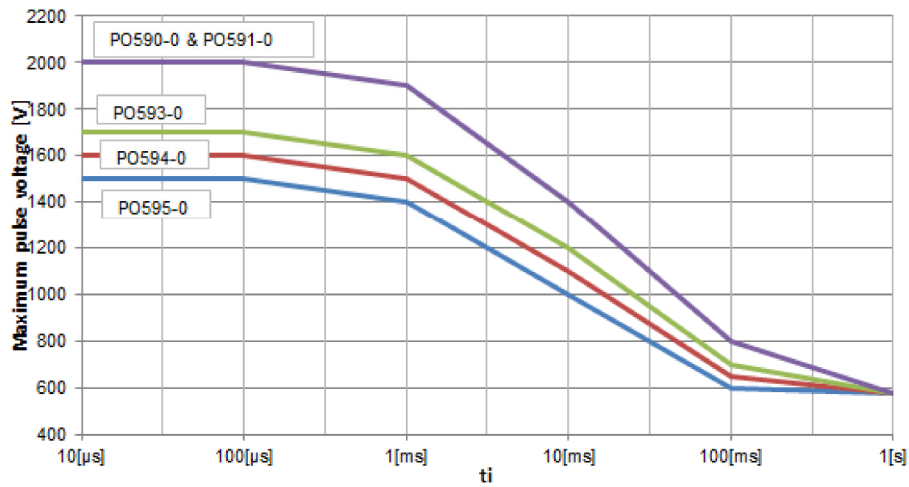
PULSE RATING $P \leq P70$ ($R \geq 10[\Omega]$)



PULSE RATING $P \rightarrow 0$ ($R \geq 10[\Omega]$)

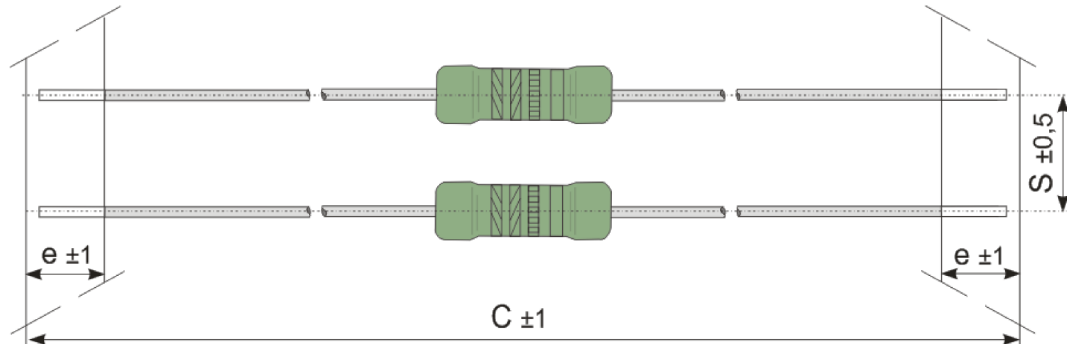


MAXIMUM PULSE VOLTAGE



PACKAGING

The standard packaging for PO in axial type is taped, dimensions below.

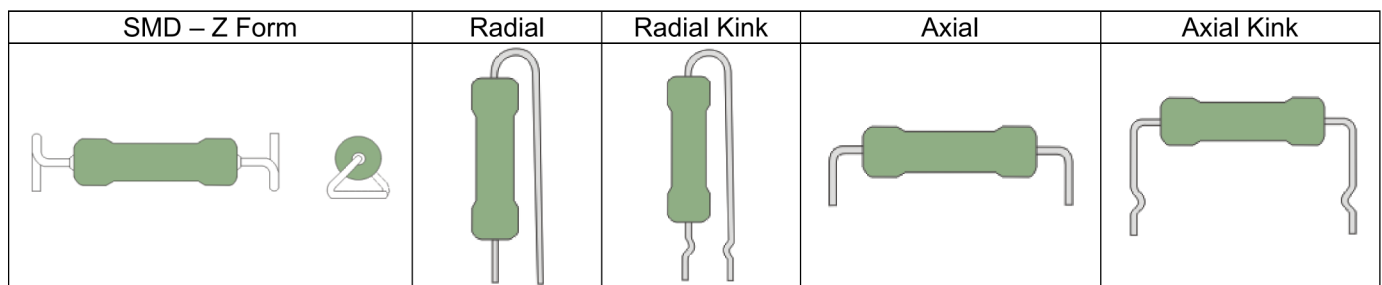


Type	Packaging	C	S	e	Pieces
PO595-0	Taped/Ammopack (T)	65	5	6	5000
PO594-0	Taped/Ammopack (T)	65	5	6	1000
PO593-0	Taped/Ammopack (T)	85	5	6	1000
PO590-0	Taped/Ammopack (T)	95	10	9	1000
PO591-0	Taped/Ammopack (T)	95	10	9	500

Dimensions in [mm]

ALTERNATIVE LEAD CONFIGURATIONS

This type PO, is also available in a different pre-forming, as shown below, other's upon request.



*For horizontal and vertical pre-forming please consult your local sales contact.

ORDERING EXAMPLE

PO595-0	5	T	150R
Type	Tolerance	Pack-Code	R-Value