Power Wirewound Resistors, vertical, circuit breaker, fibre glass core, ceramic case

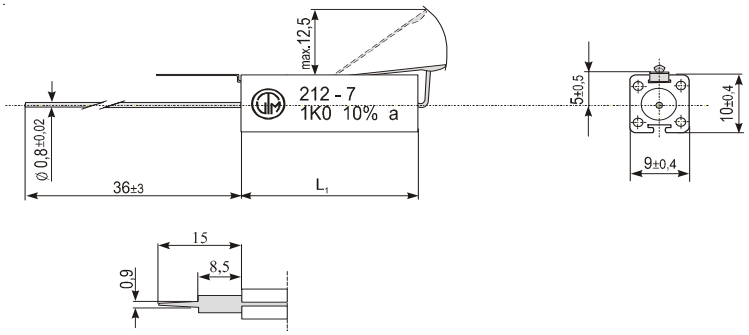
RoHS compliant

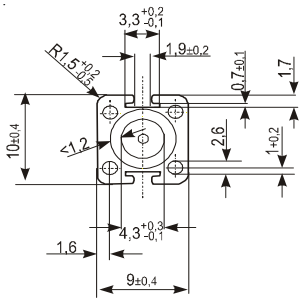
Specifications

Type		KT212-7	KT214-7	KT216-7	KT218-7
Power rating P_{70}	W	2	2,5	3,5	4,5
Resistance range	Ω	see below			
E-Series		E 24 (5%), E 12 (10%)			
Tolerances	%	± 5, ± 10			
Temperature coefficient	$10^{-6} * K^{-1}$	- 80 ... + 500			
max. cont. work. voltage	V_{RMS}	$\sqrt{P_{70} \cdot R}$			
Insulation voltage (1min.)	V_{RMS}	2000			
Insulation resistance	Ω	> 10^4M			
Derating linear	°C	see diagram next page			
Climatic category		55/150/56			
Temperature range	°C	- 55 ... 150			
Failure rate (Total, ϑ_o, max., 60% conf. lev.)	$10^{-9} * h^{-1}$	appr. 100, depends on value			
Endurance (P_{70}, 70°C, 1000h)	%	± 3,0 average			
Damp heat, steady state (40°C, 93% r.h., 56d)	$[\frac{\Delta R}{R}]$ %	± 2,0			
Climatic sequence	$[\frac{\Delta R}{R}]$ %	± 2,0			
Terminal strength	$[\frac{\Delta R}{R}]$ %	± 1,0			
Terminal tensile strength	$[\frac{\Delta R}{R}]$ N	50			
Resistance to soldering heat (260°C, 10s)	%	± 0,2 typ.			
Solderability	$[\frac{\Delta R}{R}]$ s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T			
Marking		Printed in clear			

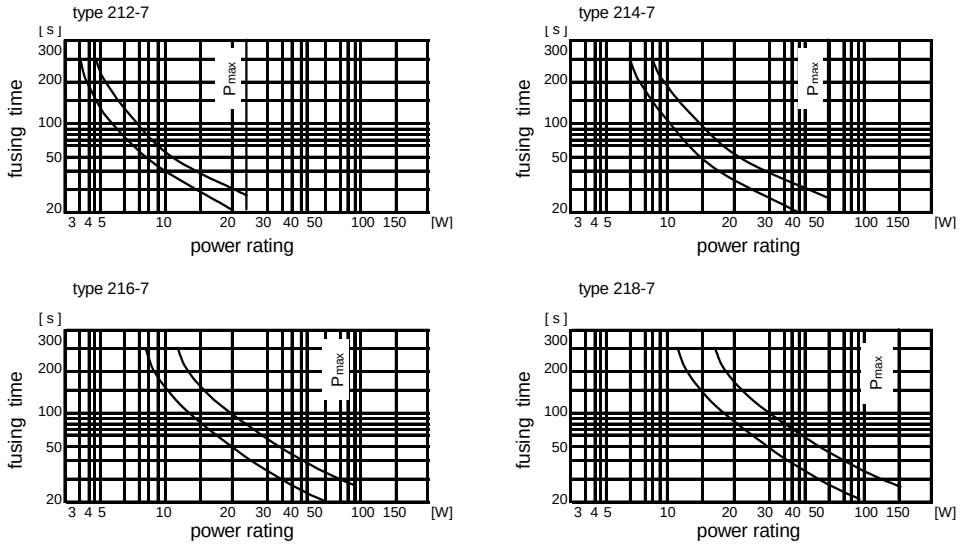
Type	Resistance range Min 10%	Min 5%	Max	L_1
KT212-7	0R075	0R15	15K	25 ±1,0
KT214-7	0R11	0R33	33K	38 ±1,0
KT216-7	0R15	0R51	47K	50 ±1,0
KT218-7	0R27	0R91	82K	75 ±1,0

Dimensions in mm





Fusing times vs. load:



Packaging:

Type	Packaging	Pieces	Pack.-Code
KT212-7	bulk	200	B
KT214-7	bulk	200	B
KT216-7	bulk	200	B
KT218-7	bulk	100	B

Ordering example:

KT212-7	5	B	1K5
Type	Tolerance	Pack.-Code	R-Value

Power Wirewound Resistors
axial, circuit breaker, ceramic case, fibre glass core

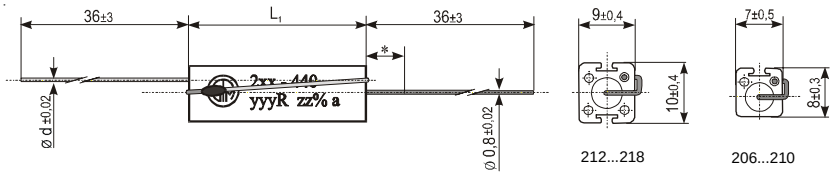
RoHS compliant

Specifications

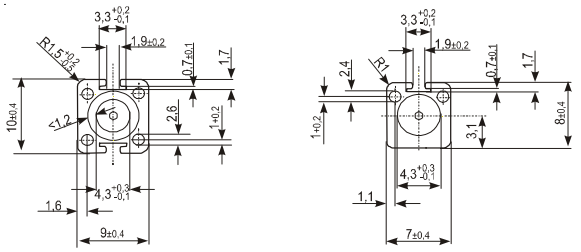
Type			KF206-4	KF208-4	KF210-4	KF212-4	KF214-4	KF216-4	KF218-4
Power rating	P_{25} P_{70}	W	2,5 1,2	3,0 1,5	4,5 2,5	3,5 2,0	5,0 3,0	7,0 4,0	11 6,0
Resistance range		Ω	see page 2						
E-Series			E 24 (5%), E 12 (10%)						
Tolerances		%	± 5, ± 10						
Temperature coefficient		$10^{-6} * K^{-1}$	- 80 ... + 500						
max. cont. work. voltage		V_{RMS}	$\sqrt{P_{70} \cdot R}$ for all styles						
Insulation voltage (1min.)		V_{RMS}	2000						
Insulation resistance		Ω	> 10^4M						
Derating linear		°C	see Table Temperature rise of solder joints						
Climatic category			55/150/56						
Temperature range		°C	- 55 ... 150						
Failure rate (Total, ϑ_o, max., 60% conf. lev.)		$10^{-9} * h^{-1}$	appr. 100, depends on value						
Endurance (P_{70}, 70°C, 1000h)		$[\frac{\Delta R}{R}]$ %	± 3,0 average						
Damp heat, steady state (40°C, 93% r.h., 56d)		$[\frac{\Delta R}{R}]$ %	± 2,0						
Climatic sequence		$[\frac{\Delta R}{R}]$ %	± 2,0						
Terminal strength		$[\frac{\Delta R}{R}]$ %	± 1,0						
Terminal tensile strength		N	50						
Resistance to soldering heat (260°C, 10s)		$[\frac{\Delta R}{R}]$ %	± 0,2 typ.						
Solderability		s	2,5 Flowtime; solderglobule test IEC 60068-2-20-T						
Marking			Printed in clear						

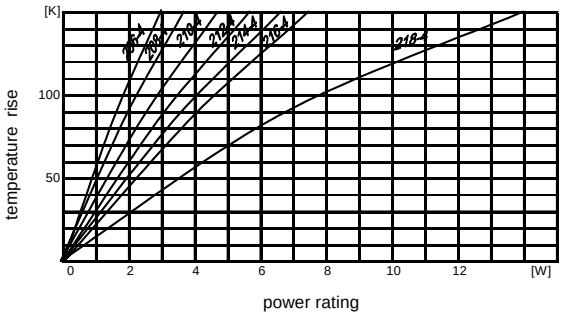
VITROHM PORTUGUESA, Lda. - Est.Nacional 249-4, Trajouce - 2765-653 S. Domingos de Rana - PORTUGAL
Tel: + 351 214 457 700 -Fax: + 351 214 457 755 -Germany Sales Tel: + 49 4121 870 103 - e-mail:vitrohm.support@yageo.com - www.vitrohm.com

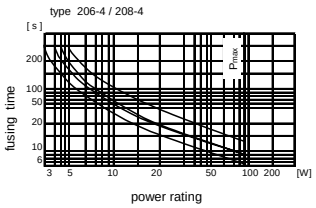
Dimensions in mm:

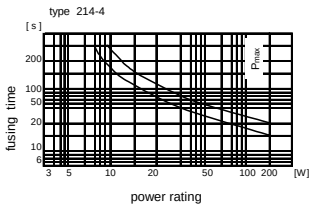


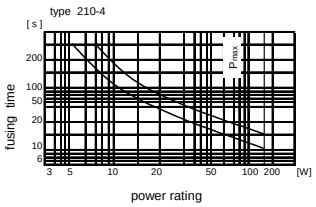
* 6mm, reduced solderability in this area

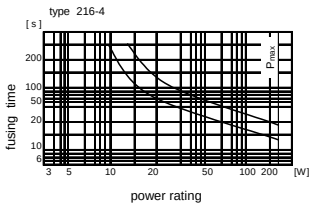


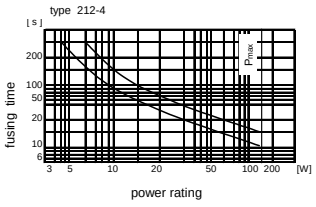


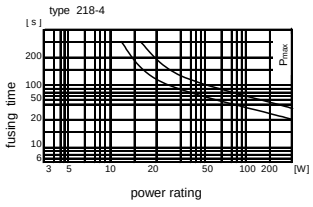












Type	Resistance range Min	Max	L_1	Ød
KF206-4	0R1	9K1	20 ±1,0	0,6
KF208-4	0R15	15K	25 ±1,0	0,6
KF210-4	0R33	33K	38 ±1,0	0,8
KF212-4	0R15	15K	25 ±1,0	0,6
KF214-4	0R33	33K	38 ±1,0	0,8
KF216-4	0R51	47K	50 ±1,5	0,8
KF218-4	0R91	82K	75 ±2,0	0,8

Packaging:

Type	Packaging	Pieces	Pack.-Code
KF206-4	bulk	100	B
KF208-4	bulk	100	B
KF210-4	bulk	100	B
KF212-4	bulk	100	B
KF214-4	bulk	100	B
KF216-4	bulk	100	B
KF218-4	bulk	100	B

Ordering example:

KF212-4	5	B	1K
Type	Tolerance	Pack.-Code	R-Value

VITROHM PORTUGUESA, Lda. - Est.Nacional 249-4, Trajouce - 2765-653 S. Domingos de Rana - PORTUGAL
Tel: + 351 214 457 700 -Fax: + 351 214 457 755 -Germany Sales Tel: + 49 4121 870 103 - e-mail:vitrohm.support@yageo.com - www.vitrohm.com