

Power Type Resistors

Quick Guide

Products	Type	Features	Power Rating at 70 °C (W)	Resistance Range (Ω)	Resistance Tolerance (%)	T.C.R. × 10 ⁻³ /°C	Category Temperature Range (°C)	Reference Standards	For Automatic Placement	Mass (Weight) [g/pc.]	Standard Quantity	Page					
Metal Oxide Film Resistors Small Size	ERG12S	Non flammable coating Small size	0.5	10 to 47 k	±5	±350	-55 to +130	IEC 60115-2 IEC 60115-4 JIS C 5201-4	52 mm Taping 74 mm Taping	0.26	2000	50					
	ERG1S, 1F			10 to 22 k	±2		0.33			2000							
	ERG2S, 2F		1	10 to 100 k	±5		-55 to +200			0.66	1000						
	ERG3S, 3F			10 to 68 k	±2					1.47	1000						
	ERG5S, 5F		2	10 to 100 k	±5	±300				3.54	500						
					±2												
Metal Film Resistors, Small Size	ERX12S	Non flammable coating Low resistance value	0.5	0.1 to 9.1	±5	±350	-55 to +130	IEC 60115-2 IEC 60115-4	Radial Taping	0.26	2000	50					
	ERX1S,1F			0.1 to 9.1	±2		0.33			2000							
	ERX2S, 2F		1	0.1 to 9.1	±5		-55 to +200			0.66	1000						
	ERX3S, 3F			0.1 to 9.1	±2					1.47	1000						
	ERX5S, 5F		2	0.1 to 9.1	±5	±300				3.54	500						
					±2												
Anti-Pulse Power Resistors	ERG12D	High resistance value	0.5	51 k to 240 k	±2 ±5	—	-55 to +130	—	52 mm Taping 74 mm Taping	0.26	2000	57					
	ERG1D		1	110 k to 330 k			-55 to +200			0.33	2000						
	ERG2D		2	110 k to 510 k						0.66	1000						
	ERG3D		3	110 k to 750 k						1.47	1000						
Metal Film Resistors	ERX12L	Low resistance value	0.5	22 m to 82 m	±5	±500 ±1000	-55 to +130	—	Radial Taping	0.26	2000	59					
	ERX1L		1				-55 to +200			0.33	2000						
	ERX2L		2							0.66	1000						
Wirewound Resistors Flameproof Bath-tub Type	ERF2A	Axial leads type	2	0.1 to 8.2	±10	±260	-55 to +155	IEC 60115-4 EIAJ RC-2123A	—	2	1000	61					
				10 to 390	±5												
	ERF3A		3	0.18 to 8.2	±10					4							
				10 to 680	±5												
	ERF5A		5	0.18 to 8.2	±10					5	500						
				10 to 680	±5												
	ERF7A	7	0.22 to 8.2	±10	8					500							
			10 to 1.5 k	±5													
	ERF10A	10	0.33 to 8.2	±10	12												
			10 to 2.4 k	±5													
	ERF2TL	Radial insertion type	2	0.01 to 0.082	±10					3.9	500						
	ERF3TL		3							5.5							
	ERF5TL		5							6.7							
	ERF7TL		7	0.01 to 0.1	8.8					500							
	ERF10TL		10		10.7												
	ERF2T		2	0.1 to 390	±10 (min. < 8.2 Ω)					3.9	500						
ERF3T	3		0.18 to 680	5.5													
ERF5T	5		0.18 to 680	6.7													
ERF7T	7		0.22 to 1.5 k	±5 (10 Ω≤)	8.8	500											
ERF10T	10		0.33 to 2 k		10.7												

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Wirewound Resistors Flameproof Bath-tub Type Discontinued	ERF5ZX	Off PC board type	5	0.22 to 8.2	±10	±260	-55 to +155	IEC 60115-4 EIAJ RC-2123A	—	6	500	61
	ERF5ZY			10 to 820	±5					7		
	ERF5Z			0.39 to 8.2	±10					6.9		
	ERF7ZX		7	10 to 1.5 k	±5					7.6		
	ERF7ZY			0.39 to 8.2	±10					8.6		
	ERF7Z			10 to 2.2 k	±5					8.5		
	ERF10ZX		10	0.39 to 8.2	±10					10		
	ERF10ZY			10 to 2.2 k	±5					10.8		
	ERF10Z			0.51 to 8.2	±10					10.6		
	ERF15ZX		15	10 to 2.2 k	±5					17		
	ERF15ZY			0.51 to 8.2	±10					20		
	ERF15Z			10 to 2.4 k	±5					19.2		
	ERF20ZX		20	10 to 2.4 k	±5					23.5		
	ERF20ZY			1.2 to 450	±5					26.5		
	ERF20Z			8.2 to 910	±10					25.7		
Wirewound Resistors Flameproof Bath-tub Type High power (with Aluminum case type) Discontinued	ERF60W	Flameproof	60	1.2 to 450	±5 ±10	—	—	—	—	—	50	65
	ERF100W		100	8.2 to 910								
	ERF150W		150	11 to 1.2 k								
	ERF200W		200	15 to 1.6 k								

Electric Power Consumption vs. Resistance Value

