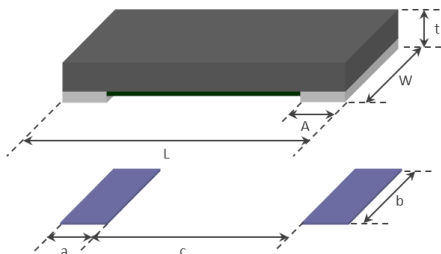


■ Dimensions

● ERJMP/F



Part No.	Case Size		Resistance Value (Ω)	Dimensions (mm)				Anexample Land Pattern (mm)				
	(mm)	(inch)		L	W	A	t	a	b	c		
ERJMP2	3216	1206	1m Ω	3.20 \pm 0.25	1.60 \pm 0.25	1.00 \pm 0.25	0.635 \pm 0.25	1.60	1.80	0.80		
			2m to 5m Ω			0.64 \pm 0.25						
			6m to 50m Ω			0.50 \pm 0.25						
ERJMP3	5025	2010	1m to 6m Ω	5.00 \pm 0.25	2.55 \pm 0.25	1.47 \pm 0.25	0.635 \pm 0.25	2.40	3.05	1.40		
			7m to 50m Ω			0.50 \pm 0.25		1.40		3.30		
ERJMP4	6432	2512	0.5m to 0.9m Ω	6.40 \pm 0.25	3.20 \pm 0.25	2.70 \pm 0.25	0.635 \pm 0.25	3.00	3.70	1.30		
			1m to 4m Ω			2.20 \pm 0.25						
			5m to 6m Ω			1.20 \pm 0.25					2.10	3.20
			7m to 50m Ω			0.76 \pm 0.25					1.65	4.10
ERJMH3	5025	2010	1m to 50m Ω	5.00 \pm 0.25	2.55 \pm 0.25	0.70 \pm 0.25	0.635 \pm 0.25	1.40	3.05	3.30		
ERJMH4	6432	2512	1m to 50m Ω	6.40 \pm 0.25	3.20 \pm 0.25	0.90 \pm 0.25	0.635 \pm 0.25	1.65	3.70	4.10		
ERJMF2	3216	1206	50m to 500m Ω	3.20 \pm 0.25	1.60 \pm 0.25	0.50 \pm 0.25	0.635 \pm 0.25	1.60	1.80	0.80		
ERJMF3	5025	2010	50m to 500m Ω	5.00 \pm 0.25	2.55 \pm 0.25	0.50 \pm 0.25	0.635 \pm 0.25	1.40	3.05	3.30		
ERJMF4	6432	2512	50m to 500m Ω	6.40 \pm 0.25	3.20 \pm 0.25	0.76 \pm 0.25	0.635 \pm 0.25	1.65	3.70	4.10		
ERJMU3	5025	2010	50m to 500m Ω	5.00 \pm 0.25	2.55 \pm 0.25	0.70 \pm 0.25	0.635 \pm 0.25	1.40	3.05	3.30		
ERJMU4	6432	2512	50m to 500m Ω	6.40 \pm 0.25	3.20 \pm 0.25	0.90 \pm 0.25	0.635 \pm 0.25	1.65	3.70	4.10		

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■ Detail Part Number List (1206 Size)

Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number	Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number
3216 (1206)	0.25	1	±1%	±75	ERJMP2GF1M0U	3216 (1206)	0.5	68	±1%	±75	ERJMF2KF68MU
		2	±1%	±75	ERJMP2GF2M0U			100	±1%	±75	ERJMF2KFR10U
		3	±1%	±75	ERJMP2GF3M0U			150	±1%	±75	ERJMF2KFR15U
		4	±1%	±75	ERJMP2GF4M0U			220	±1%	±75	ERJMF2KFR22U
		5	±1%	±20	ERJMP2GF5M0U			330	±1%	±75	ERJMF2KFR33U
		6	±1%	±20	ERJMP2GF6M0U			470	±1%	±75	ERJMF2KFR47U
		7	±1%	±20	ERJMP2GF7M0U			500	±1%	±75	ERJMF2KFR50U
		8	±1%	±20	ERJMP2GF8M0U			1	±1%	±75	ERJMP2MF1M0U
		9	±1%	±20	ERJMP2GF9M0U			2	±1%	±75	ERJMP2MF2M0U
		10	±1%	±20	ERJMP2GF10MU		3	±1%	±75	ERJMP2MF3M0U	
		15	±1%	±20	ERJMP2GF15MU		4	±1%	±75	ERJMP2MF4M0U	
		22	±1%	±20	ERJMP2GF22MU		5	±1%	±20	ERJMP2MF5M0U	
		33	±1%	±20	ERJMP2GF33MU		6	±1%	±20	ERJMP2MF6M0U	
		47	±1%	±20	ERJMP2GF47MU		7	±1%	±20	ERJMP2MF7M0U	
		50	±1%	±20	ERJMP2GF50MU		8	±1%	±20	ERJMP2MF8M0U	
		68	±1%	±75	ERJMF2GF68MU		9	±1%	±20	ERJMP2MF9M0U	
		100	±1%	±75	ERJMF2GFR10U		10	±1%	±20	ERJMP2MF10MU	
		150	±1%	±75	ERJMF2GFR15U		15	±1%	±20	ERJMP2MF15MU	
	220	±1%	±75	ERJMF2GFR22U	22		±1%	±20	ERJMP2MF22MU		
	330	±1%	±75	ERJMF2GFR33U	33		±1%	±20	ERJMP2MF33MU		
	470	±1%	±75	ERJMF2GFR47U	47		±1%	±20	ERJMP2MF47MU		
	500	±1%	±75	ERJMF2GFR50U	50		±1%	±20	ERJMP2MF50MU		
	0.5	1	±1%	±75	ERJMP2KF1M0U		68	±1%	±75	ERJMF2MF68MU	
		2	±1%	±75	ERJMP2KF2M0U		100	±1%	±75	ERJMF2MFR10U	
		3	±1%	±75	ERJMP2KF3M0U		150	±1%	±75	ERJMF2MFR15U	
		4	±1%	±75	ERJMP2KF4M0U		220	±1%	±75	ERJMF2MFR22U	
		5	±1%	±20	ERJMP2KF5M0U		330	±1%	±75	ERJMF2MFR33U	
		6	±1%	±20	ERJMP2KF6M0U		470	±1%	±75	ERJMF2MFR47U	
		7	±1%	±20	ERJMP2KF7M0U		500	±1%	±75	ERJMF2MFR50U	
		8	±1%	±20	ERJMP2KF8M0U						
		9	±1%	±20	ERJMP2KF9M0U						
		10	±1%	±20	ERJMP2KF10MU						
		15	±1%	±20	ERJMP2KF15MU						
22		±1%	±20	ERJMP2KF22MU							
33		±1%	±20	ERJMP2KF33MU							
47		±1%	±20	ERJMP2KF47MU							
50		±1%	±20	ERJMP2KF50MU							

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■ Detail Part Number List (2010 Size)

Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number	Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number	
5025 (2010)	0.5	1	±1%	±75	ERJMP3KF1M0U	5025 (2010)	1	68	±1%	±75	ERJMF3MFR68MU	
		2	±1%	±75	ERJMP3KF2M0U			100	±1%	±75	ERJMF3MFR10U	
		3	±1%	±75	ERJMP3KF3M0U			150	±1%	±75	ERJMF3MFR15U	
		4	±1%	±75	ERJMP3KF4M0U			220	±1%	±75	ERJMF3MFR22U	
		5	±1%	±20	ERJMP3KF5M0U			330	±1%	±75	ERJMF3MFR33U	
		6	±1%	±20	ERJMP3KF6M0U			470	±1%	±75	ERJMF3MFR47U	
		7	±1%	±20	ERJMP3KF7M0U			500	±1%	±75	ERJMF3MFR50U	
		8	±1%	±20	ERJMP3KF8M0U			2	1	±1%	±75	ERJMP3PF1M0U
		9	±1%	±20	ERJMP3KF9M0U				2	±1%	±75	ERJMP3PF2M0U
		10	±1%	±20	ERJMP3KF10MU		3		±1%	±75	ERJMP3PF3M0U	
		15	±1%	±20	ERJMP3KF15MU		4		±1%	±75	ERJMP3PF4M0U	
		22	±1%	±20	ERJMP3KF22MU		5		±1%	±20	ERJMP3PF5M0U	
		33	±1%	±20	ERJMP3KF33MU		6		±1%	±20	ERJMP3PF6M0U	
		47	±1%	±20	ERJMP3KF47MU		7		±1%	±20	ERJMP3PF7M0U	
		50	±1%	±20	ERJMP3KF50MU		8		±1%	±20	ERJMP3PF8M0U	
		68	±1%	±75	ERJMF3KF68MU		9		±1%	±20	ERJMP3PF9M0U	
		100	±1%	±75	ERJMF3KFR10U		10		±1%	±20	ERJMP3PF10MU	
		150	±1%	±75	ERJMF3KFR15U		15		±1%	±20	ERJMP3PF15MU	
	220	±1%	±75	ERJMF3KFR22U	22		±1%		±20	ERJMP3PF22MU		
	330	±1%	±75	ERJMF3KFR33U	33		±1%		±20	ERJMP3PF33MU		
	470	±1%	±75	ERJMF3KFR47U	47		±1%		±20	ERJMP3PF47MU		
	500	±1%	±75	ERJMF3KFR50U	50		±1%		±20	ERJMP3PF50MU		
	1	1	±1%	±75	ERJMP3MF1M0U		68	±1%	±75	ERJMF3PF68MU		
		2	±1%	±75	ERJMP3MF2M0U		100	±1%	±75	ERJMF3PFR10U		
		3	±1%	±75	ERJMP3MF3M0U		150	±1%	±75	ERJMF3PFR15U		
		4	±1%	±75	ERJMP3MF4M0U		220	±1%	±75	ERJMF3PFR22U		
		5	±1%	±20	ERJMP3MF5M0U		330	±1%	±75	ERJMF3PFR33U		
		6	±1%	±20	ERJMP3MF6M0U		470	±1%	±75	ERJMF3PFR47U		
		7	±1%	±20	ERJMP3MF7M0U		500	±1%	±75	ERJMF3PFR50U		
		8	±1%	±20	ERJMP3MF8M0U							
		9	±1%	±20	ERJMP3MF9M0U							
		10	±1%	±20	ERJMP3MF10MU							
		15	±1%	±20	ERJMP3MF15MU							
22		±1%	±20	ERJMP3MF22MU								
33		±1%	±20	ERJMP3MF33MU								
47		±1%	±20	ERJMP3MF47MU								
50		±1%	±20	ERJMP3MF50MU								

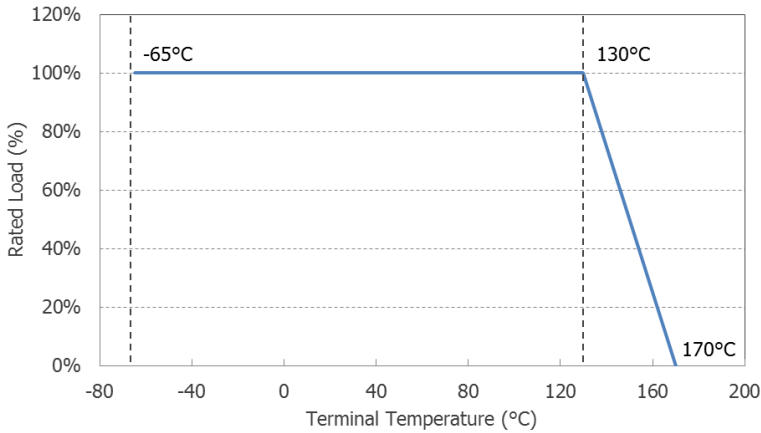
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■ Detail Part Number List (2512 Size)

Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number	Size	Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Part Number
6432 (2512)	1	1	±1%	±75	ERJMP4MF1M0U	6432 (2512)	2	68	±1%	±75	ERJMF4PF68MU
		2	±1%	±75	ERJMP4MF2M0U			100	±1%	±75	ERJMF4PFR10U
		3	±1%	±75	ERJMP4MF3M0U			150	±1%	±75	ERJMF4PFR15U
		4	±1%	±75	ERJMP4MF4M0U			220	±1%	±75	ERJMF4PFR22U
		5	±1%	±20	ERJMP4MF5M0U			330	±1%	±75	ERJMF4PFR33U
		6	±1%	±20	ERJMP4MF6M0U			470	±1%	±75	ERJMF4PFR47U
		7	±1%	±20	ERJMP4MF7M0U			500	±1%	±75	ERJMF4PFR50U
		8	±1%	±20	ERJMP4MF8M0U			1	±1%	±75	ERJMP4QF1M0U
		9	±1%	±20	ERJMP4MF9M0U			2	±1%	±75	ERJMP4QF2M0U
		10	±1%	±20	ERJMP4MF10MU			3	±1%	±75	ERJMP4QF3M0U
		15	±1%	±20	ERJMP4MF15MU			4	±1%	±75	ERJMP4QF4M0U
		22	±1%	±20	ERJMP4MF22MU			5	±1%	±20	ERJMP4QF5M0U
		33	±1%	±20	ERJMP4MF33MU			6	±1%	±20	ERJMP4QF6M0U
		47	±1%	±20	ERJMP4MF47MU			7	±1%	±20	ERJMP4QF7M0U
	50	±1%	±20	ERJMP4MF50MU	8		±1%	±20	ERJMP4QF8M0U		
	68	±1%	±75	ERJMF4MF68MU	9		±1%	±20	ERJMP4QF9M0U		
	100	±1%	±75	ERJMF4MFR10U	10		±1%	±20	ERJMP4QF10MU		
	150	±1%	±75	ERJMF4MFR15U	15		±1%	±20	ERJMP4QF15MU		
	220	±1%	±75	ERJMF4MFR22U	22		±1%	±20	ERJMP4QF22MU		
	330	±1%	±75	ERJMF4MFR33U	33		±1%	±20	ERJMP4QF33MU		
	470	±1%	±75	ERJMF4MFR47U	47		±1%	±20	ERJMP4QF47MU		
	500	±1%	±75	ERJMF4MFR50U	50		±1%	±20	ERJMP4QF50MU		
	2	1	±1%	±75	ERJMP4PF1M0U		68	±1%	±75	ERJMF4QF68MU	
		2	±1%	±75	ERJMP4PF2M0U		100	±1%	±75	ERJMF4QFR10U	
		3	±1%	±75	ERJMP4PF3M0U		150	±1%	±75	ERJMF4QFR15U	
		4	±1%	±75	ERJMP4PF4M0U		220	±1%	±75	ERJMF4QFR22U	
		5	±1%	±20	ERJMP4PF5M0U		330	±1%	±75	ERJMF4QFR33U	
		6	±1%	±20	ERJMP4PF6M0U		470	±1%	±75	ERJMF4QFR47U	
7		±1%	±20	ERJMP4PF7M0U	500	±1%	±75	ERJMF4QFR50U			
8		±1%	±20	ERJMP4PF8M0U							
9		±1%	±20	ERJMP4PF9M0U							
10		±1%	±20	ERJMP4PF10MU							
15		±1%	±20	ERJMP4PF15MU							
22		±1%	±20	ERJMP4PF22MU							
33		±1%	±20	ERJMP4PF33MU							
47		±1%	±20	ERJMP4PF47MU							
50	±1%	±20	ERJMP4PF50MU								

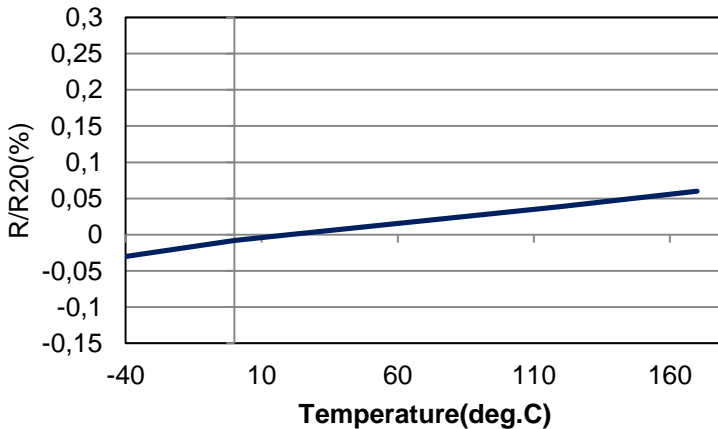
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■ Power derating



For resistors operated at terminal temperatures above 130°C, power rating shall be derated in accordance with the figure on the left.

■ Typical Temperature dependence of electrical resistance



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■ Target Performance (AEC-Q200)

Test Item	Test Conditions	Specification	Typical value
Thermal Shock	MIL-STD-202 method 107 -55°C↔125°C,25cycle	±0.5%	0.05%
Overload	MIL-R-26E (5 x rated power, 5sec)	±0.5%	0.02%
Solderability	MIL-STD-202 method 208	>95% coverage	>95% coverage
Resistance to Solvents	MIL-STD-202 method 215, 2.1a, 2.1d	No damage	No damage
Low Temperature Storage and Operation	MIL-STD-26E -65°C,24h	±0.5%	0.03%
Resistance to Soldering Heat	MIL-STD-202 method 210 260°C,10s	±0.5%	0.1%
Moisture Resistance	MIL-STD-202 method 106	±0.5%	0.2%
Shock	MIL-STD-202 method 213-A	±0.5%	0.1%
Vibration, High Frequency	MIL-STD-202 method 204-B	±0.5%	0.05%
Life	MIL-STD-26E Rated Power,1.5h-ON,0.5h-OFF, 2000h	±1%	0.3%
Storage Life at Elevated Temperature	MIL-STD-202 method 108-F 170°C,2000h	±1%	0.3%
High Temperature Characteristic	140°C, 2000h	±0.5%	0.05%
Frequency Characteristic	Inductance	< 2nH	< 2nH

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