

RESISTORS

Surface Mount Chip Resistors

Appearance	Type	Case Size	Power Rating (W)	Resistance Range (Ω)	Resistance Tolerance (%)	T.C.R (ppm/°C)	L x W x T Dimensions (mm)	Packing Qty. 7 Inch Reel (pcs.)	Features								
General Purpose 5%, 1% 	ERJ-XGEJ	01005	1 / 32 W	10 ~ 1 M	± 5	± 200	0.40 x 0.20 x 0.12	10,000	<ul style="list-style-type: none"> ● Small size and lightweight ● High reliability using metal glaze thick film resistive element and three layers of electrodes ● Compatible with automatic placement of bulk taping and bulk case packaging ● Reflow and flow solderability ● Meets ISO-9001 & QS-9000 standards ● The power rating for one case-size larger is available for ERJ-3E; 6E; and 8E ● Low resistance tolerance: ERJ-3E; 6E; 8E; 14, 12 series: ± 1% NOTE: Chip resistor 5% tolerance <table border="1"> <tr> <th>Resistance Range (Ω)</th> <th>T.C.R. (ppm / °C)</th> </tr> <tr> <td><10</td> <td>-100 ~ +600</td> </tr> <tr> <td>10 - 1 M</td> <td>± 200</td> </tr> <tr> <td>>1M</td> <td>-400 ~ +150</td> </tr> </table>	Resistance Range (Ω)	T.C.R. (ppm / °C)	<10	-100 ~ +600	10 - 1 M	± 200	>1M	-400 ~ +150
	Resistance Range (Ω)	T.C.R. (ppm / °C)															
	<10	-100 ~ +600															
	10 - 1 M	± 200															
	>1M	-400 ~ +150															
	ERJ-1GEJ	0201	1 / 20 W	1.0 ~ 1 M	± 5	1.0 ~ 1 M	± 1	0.60 x 0.3 x 0.25		15,000							
	ERJ-1GEF	0402	1 / 16 W	1.0 ~ 2.2 M	± 5		± 1	± 100		1.0 x 0.5 x 0.35	10,000						
	ERJ-2GEJ	0603	1 / 10 W	1.0 ~ 10 M	± 5	± 5	± 200	1.6 x 0.8 x 0.45		5,000							
	ERJ-2RKF	0805	1 / 8 W	1.0 ~ 10 M	± 5	± 5	± 200	2.0 x 1.25 x 0.6		5,000							
	ERJ-3GEYJ	1206	1 / 4 W	1.0 ~ 10 M	± 5	± 5	± 200	3.2 x 1.6 x 0.6		5,000							
	ERJ-3KEF	1210	1 / 4 W	1.0 ~ 10 M	± 5	± 5	± 200	3.2 x 2.5 x 0.6		5,000							
	ERJ-6GEYJ	1812	1 / 2 W	1.0 ~ 10 M	± 5	± 5	± 200	4.5 x 3.2 x 0.6		5,000							
	ERJ-6ENF	2010	1 / 2 W	1.0 ~ 10 M	± 5	± 5	± 200	5.0 x 2.5 x 0.6		5,000							
	ERJ-8GEYJ	2512	1 W	1.0 ~ 10 M	± 5	± 5	± 200	6.4 x 3.2 x 0.6		4,000							
	ERJ-8ENF																
	ERJ-14YJ																
ERJ-14NF																	
ERJ-12YJ																	
ERJ-12NF																	
ERJ-12ZYJ																	
ERJ-12SF																	
ERJ-1TYJ																	
ERJ-1TNF																	
Current Sensing 5%, 1% 	ERJ-3RSJ	0603	1 / 10 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 300	1.6 x 0.8 x 0.45	5,000	<ul style="list-style-type: none"> ● Small size and lightweight ● High reliability using metal glaze thick film resistive elements and three layers of electrodes ● Compatible with automatic placement of bulk taping and bulk case packaging ● Reflow and flow solderability ● Meets ISO-9001 & QS-9000 standards ● Low resistance tolerance: ERJ-2R; 3R; 6R series ... ± 5%, ± 1% 								
	ERJ-3RQJ			0.22 ~ 0.91	± 1					1.0 ~ 9.1 Ω ± 200							
	ERJ-3RSF			0.1 ~ 0.2	± 1					1.0 ~ 9.1 Ω ± 200							
	ERJ-3RQF	0.22 ~ 9.1	± 5	0.1 ~ 0.91 Ω ± 300	2.0 x 1.25 x 0.6	5,000											
	ERJ-6RSJ	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 300													
	ERJ-6RQJ	0.22 ~ 0.91	± 1	1.0 ~ 9.1 Ω ± 200													
	ERJ-6RSF	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 250	3.2 x 1.6 x 0.6	5,000											
	ERJ-6RQF	0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 200													
	ERJ-8RSJ	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 200													
	ERJ-8RQJ	0.22 ~ 9.1	± 5	0.1 ~ 0.91 Ω ± 200	3.2 x 2.5 x 0.6	5,000											
	ERJ-8RSF	0.1 ~ 0.2	± 1	1.0 ~ 9.1 Ω ± 100													
	ERJ-8RQF	0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 100													
	ERJ-14RSJ	1210	1 / 4 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 200	4.5 x 3.2 x 0.6	5,000									
	ERJ-14RQJ	0.22 ~ 0.91		± 1	1.0 ~ 9.1 Ω ± 100												
	ERJ-14RSF	0.1 ~ 0.2		± 5	0.1 ~ 0.91 Ω ± 200												
	ERJ-14RQF	0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 100	4.5 x 3.2 x 0.6	5,000											
ERJ-12RSJ	1812	1 / 2 W	0.1 ~ 0.2	± 5			0.1 ~ 0.91 Ω ± 200										
ERJ-12RQJ	0.22 ~ 0.91		± 1	1.0 ~ 9.1 Ω ± 100													
ERJ-12RSF	0.1 ~ 0.2		± 5	0.1 ~ 0.91 Ω ± 200													
ERJ-12RQF	0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 100	6.4 x 3.2 x 0.6	4,000												
ERJ-1TRSJ	2512	1 W	0.1 ~ 0.2			± 5	0.1 ~ 0.91 Ω ± 200										
ERJ-1TRQJ	0.22 ~ 0.91		± 1			1.0 ~ 9.1 Ω ± 100											
ERJ-1TRSF	0.1 ~ 0.2		± 5	0.1 ~ 0.91 Ω ± 200													
ERJ-1TRQF	0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 100														
Current Sensing (mΩ) 5%, 1% 	ERJ-L03	0603	1 / 10 W	47 ~ 100 milli.	± 5	± 200	1.6 x 0.8 x 0.45	5,000	<ul style="list-style-type: none"> ● Small size and lightweight ● High reliability using metal glaze thick film resistive elements and three layers of electrodes ● Compatible with automatic placement of bulk taping and bulk case packaging ● Reflow and flow solderability ● Meets ISO-9001 & QS-9000 standards ● Low resistance values for ERJ-L14; L12; L1W series: 47 mΩ ~ 100 mΩ 								
	ERJ-L06	0805	1 / 8 W	47 ~ 100 milli.	± 5	± 100	2.0 x 1.25 x 0.5	5,000									
	ERJ-L08	1206	1/4 W	47 ~ 100 milli.	± 5	± 100	3.2 x 1.6 x 0.6	5,000									
	ERJ-L14KJ	1210	1/4 W	20 ~ 100 milli.	± 5	± 100	3.2 x 2.5 x 0.6	5,000									
	ERJ-L14KF				± 1												
	ERJ-L12KJ	1812	1/2 W	20 ~ 100 milli.	± 5	± 100	4.5 x 3.2 x 0.6	5,000									
	ERJ-L12KF				± 1												
	ERJ-L1D	2010	1/2 W	40 ~ 100 milli.	± 5	<47 milli: ± 300 ≥47 milli: ± 100	5.0 x 2.5 x 0.6	5,000									
	ERJ-L1WKJ	2512	1W	40 ~ 100 milli.	± 5	± 100	6.4 x 3.2 x 1.1	3,000									
	ERJ-L1WKF				± 1												
	ERJ-M1WT	2512	1W	1 ~ 4 milli.	± 5	1 ~ 2 mΩ ± 500 1 ~ 2 mΩ ± 500	6.4 x 3.2 x 0.8	3,000									
	ERJ-M1WTF			3 ~ 4 milli.	± 1												
	ERJ-M1WSJ			3 ~ 20 milli.	± 5	≥ 5 mΩ: ± 100 < 5 mΩ: ± 350											
ERJ-M1WSF				± 1													

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Ultra Precision 0.1%, 0.5% 	THIN FILM CHIP RESISTORS	ERA-3YEB	0603	1 / 16 W	100 ~ 33 K	± 0.1	± 25	5,000	<ul style="list-style-type: none"> ● Small size and lightweight ● High reliability ● Low T.C.R. and current noise ● Excellent non-linearity ● Reflow & flow solderability ● Meets ISO-9001 standards 							
	EBA-6YEB	0805	1 / 10 W	100 ~ 100 K												
	ERA-8YEB	1206	1 / 8 W	100 ~ 100 K												
	ERA-14EB	1210	1 / 4 W	100 ~ 100 K	± 0.5	± 25	1.6 x 0.8 x 0.45	5,000								
	ERA-3YED	0603	1 / 16 W	10 ~ 91												
	ERA-3YHD			100 ~ 33 K												
	ERA-3YKD	0603	1 / 16 W	10 ~ 91	36K ~ 330K	± 100	± 25	1.6 x 0.8 x 0.45		5,000						
	ERA-6YED				0805						1 / 10 W	10 ~ 91				
	ERA-6YHD											100 ~ 100 K				
ERA-6YKD	0805	1 / 10 W	100 ~ 100 K	110K ~ 1M	± 0.5	± 50	2.0 x 1.25 x 0.5	5,000								
											± 100					
LINEAR THERMISTOR 	ERAS	0805	1 / 10 W	1 K ~ 10 K	± 5	1500 ± 200	2.0 x 1.25 x 0.5	5,000	<ul style="list-style-type: none"> ● Excellent linearity of temperature coefficient to resistance value ● Good for temperature compensation circuit in applications such as VRM and/or PA module 							
				1 K ~ 4.7 K	± 5	$2700 \pm 10\%$										
				5.6 ~ 470 K	± 5	$3900 \pm 10\%$										
	ERAV	0603	1 / 16 W	1 K ~ 10 K	± 5	1500 ± 200	1.6 x 0.8 x 0.45	5,000								
				1 K ~ 3.3 K	± 5	$2700 \pm 10\%$										
				5.6 ~ 390	± 5	$3900 \pm 10\%$										
Chip Attenuator 	EXB-24AT	0404	1 / 25 W Package	Attenuation Range 1 ~ 5 dB	Attenuation Tolerance ± 0.3 dB	Characteristic Impedance 50 Ω	1.0 x 1.0 x 0.35	10,000	<ul style="list-style-type: none"> ● Space saving design using unbalanced pie-type attenuator 							
				6 ~ 10 dB	± 0.5 dB											
CHIP RESISTOR ARRAY 	EXB-14V	0201 x 2 Flat Term	1 / 32 W	10 ~ 1 M	± 5	$\pm 200 \times 10^{-6} / ^{\circ}\text{C}$	0.8 x 0.6 x 0.35	10,000	<ul style="list-style-type: none"> ● High density of resistors in single array chip ● Improved placement efficiency (2 to 4 times greater) compared to flat chip type resistors 							
										EXB-18V	0201 x 4 Flat Term	1 / 32 W	10 ~ 1 M	± 5	$\pm 200 \times 10^{-6} / ^{\circ}\text{C}$	1.4 x 0.6 x 0.35
										EXB-N8V	0402 x 4 Concave Term	1 / 32 W	1 ~ 1 M	± 5	$\pm 200 \times 10^{-6} / ^{\circ}\text{C}$	2.0 x 1.0 x 0.45
	EXB-24V	0402 x 2 Convex Term	1 / 16 W	1 ~ 1 M	± 5	± 200	1.0 x 1.0 x 0.35	10,000								
										EXB-28V	0402 x 4 Convex Term	1 / 32 W	2.0 x 1.0 x 0.35			
	EXB-2HV	0402 x 8 Convex Term	1 / 16 W Element	1 ~ 1 M	± 5	± 1 upon request	3.8 x 1.6 x 0.45	5,000								
	EXB-34V	0603 x 2 Convex Term					1.6 x 1.6 x 0.50									
	EXB-38V	0603 x 4 Convex Term					3.2 x 1.6 x 0.50									
	EXB-V4V	0603 x 2 Concave Term	1 / 10 W Element	10 ~ 1 M	± 5	± 200	1.6 x 1.6 x 0.60	2,500								
	EXB-V8V	0603 x 4 Concave Term					3.2 x 1.6 x 0.60									
	EXB-S8V	0805 x 4 Concave Term	5.08 x 2.2 x 0.70													
CHIP R-NETWORK 	EXB-D10C	1206 Concave Term	1 / 20 W Element	47 ~ 1 M	± 5	± 200	3.2 x 1.6 x 0.55	5,000	<ul style="list-style-type: none"> ● High density placement for digital signal applications: 8 bussed resistors for pull up/down circuits ● Superior mountability due to unique concave terminal 							
							EXB-E10C	1608 Concave Term		1 / 16 W Element	4.0 x 2.1 x 0.55	4,000				
							EXB-A10P	2512 Concave Term		1 / 16 W Element	6.4 x 3.1 x 0.55					
CHIP R-C-NETWORK 	EZA-DT	1206	R = 1 / 16 W C = 12 V	Combination of R and C R = 22, 47, 100, 220, 470, 1K Ω C = 22, 47, 100 pF	± 5	± 200	3.2 x 1.6 x 0.65	5,000	<ul style="list-style-type: none"> ● Four R-C filters for noise reduction in a 1206 & 1608 package 							
							EZA-ST	1608		R = 1 / 16 W C = 25 V	4.0 x 2.1 x 0.65	4,000				

■ EIA Standard Resistance Values

	E-96 Tolerance $\pm 1\%$			E-24 $\pm 5\%, 0.5\%, 0.1\%$	E-12 $\pm 10\%$	E-6 $\pm 20\%$
100	178	316	562	1.0	1.0	1.0
102	182	324	576	1.1	-	-
105	187	332	590	1.2	1.2	-
107	191	340	604	1.3	-	-
110	196	348	619	1.5	1.5	1.5
113	200	357	634	1.6	-	-
115	205	365	649	1.8	1.8	-
118	210	374	665	2.0	-	-
121	215	383	681	2.2	2.2	2.2
124	221	392	698	2.4	-	-
127	226	402	715	2.7	2.7	-
130	232	412	732	3.0	-	-

	E-96 Tolerance $\pm 1\%$			E-24 $\pm 5\%, 0.5\%, 0.1\%$	E-12 $\pm 10\%$	E-6 $\pm 20\%$
133	237	422	750	3.3	3.3	3.3
137	243	432	768	3.6	-	-
140	249	442	787	3.9	3.9	-
143	255	453	806	4.3	-	-
147	261	464	825	4.7	4.7	4.7
150	267	475	845	5.1	-	-
154	274	487	866	5.6	5.6	-
158	280	499	887	6.2	-	-
162	287	511	909	6.8	6.8	6.8
165	294	523	931	7.5	-	-
169	301	536	953	8.2	8.2	-
174	309	549	976	9.1	-	-

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