

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	● 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><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	0.60 x 0.3 x 0.25	15,000										
	ERJ-1GEF			10 ~ 1 M	± 1												
	ERJ-2GEJ	0402	1 / 16 W	1.0 ~ 2.2 M	± 5	± 100	1.0 x 0.5 x 0.35	10,000									
	ERJ-2RKF			10 ~ 1 M	± 1	± 200											
	ERJ-3GEYJ	0603	1 / 10 W	1.0 ~ 10 M	± 5	± 100	1.6 x 0.8 x 0.45	5,000									
	ERJ-3EKF			10 ~ 1 M	± 1	± 200											
	ERJ-6GEYJ	0805	1 / 8 W	1.0 ~ 10 M	± 5	± 100	2.0 x 1.25 x 0.6	5,000									
	ERJ-6ENF			10 ~ 2.2 M	± 1	± 200											
	ERJ-8GEYJ	1206	1 / 4 W	1.0 ~ 10 M	± 5	± 100	3.2 x 1.6 x 0.6	5,000									
	ERJ-8ENF			10 ~ 2.2 M	± 1	± 200											
	ERJ-14YJ	1210	1 / 4 W	1.0 ~ 10 M	± 5	± 200	3.2 x 2.5 x 0.6	5,000									
	ERJ-14NF			10 ~ 1 M	± 1	± 200											
	ERJ-12YJ	1812	1 / 2 W	1.0 ~ 10 M	± 5	± 100	4.5 x 3.2 x 0.6	5,000									
	ERJ-12NF			10 ~ 1 M	± 1	± 200											
ERJ-12ZYJ	2010	1 / 2 W	1.0 ~ 10 M	± 5	± 100	5.0 x 2.5 x 0.6	5,000										
ERJ-12SF			10 ~ 1 M	± 1	± 200												
ERJ-1TYJ	2512	1 W	1.0 ~ 1 M	± 5	± 200	6.4 x 3.2 x 0.6	4,000										
ERJ-1TNF			10 ~ 1 M	± 1	± 200												
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	● 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													
	ERJ-3RQF			0.22 ~ 9.1													
	ERJ-6RSJ	0805	1 / 8 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 300	2.0 x 1.25 x 0.6	5,000									
	ERJ-6RQJ			0.22 ~ 0.91	± 1	1.0 ~ 9.1 Ω ± 200											
	ERJ-6RSF			0.1 ~ 0.2													
	ERJ-6RQF			0.22 ~ 9.1													
	ERJ-8RSJ	1206	1 / 4 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 250	3.2 x 1.6 x 0.6	5,000									
	ERJ-8RQJ			0.22 ~ 9.1	± 1	1.0 ~ 9.1 Ω ± 200											
	ERJ-8RSF			0.1 ~ 0.2													
	ERJ-8RQF			0.22 ~ 9.1													
	ERJ-14RSJ	1210	1 / 4 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 200	3.2 x 2.5 x 0.6	5,000									
	ERJ-14RQJ			0.22 ~ 0.91	± 1	1.0 ~ 9.1 Ω ± 100											
	ERJ-14RSF			0.1 ~ 0.2													
	ERJ-14RQF			0.22 ~ 9.1													
	ERJ-12RSJ	1812	1 / 2 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 200	4.5 x 3.2 x 0.6	5,000									
	ERJ-12RQJ			0.22 ~ 0.91	± 1	1.0 ~ 9.1 Ω 100											
	ERJ-12RSF			0.1 ~ 0.2													
	ERJ-12RQF			0.22 ~ 9.1													
	ERJ-1TRSJ	2512	1 W	0.1 ~ 0.2	± 5	0.1 ~ 0.91 Ω ± 200	6.4 x 3.2 x 0.6	4,000									
	ERJ-1TRQJ			0.22 ~ 0.91	± 1	1.0 ~ 9.1 Ω ± 100											
	ERJ-1TRSF			0.1 ~ 0.2													
	ERJ-1TRQF			0.22 ~ 0.91													
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	● 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		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												

NOTE: These parts are RoHS compliant.

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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	1.6 x 0.8 x 0.45	5,000	● 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			2.0 x 1.25 x 0.5																																																																																												
		ERA-8YEB	1206	1 / 8 W	100 ~ 100 K			3.2 x 1.6 x 0.6																																																																																												
		ERA-14EB	1210	1 / 4 W	100 ~ 100 K			3.2 x 2.5 x 0.6																																																																																												
		ERA-3YED	0603	1 / 16 W	10 ~ 91	± 0.5	± 25	1.6 x 0.8 x 0.45	5,000																																																																																											
		ERA-3YHD		100 ~ 33 K	± 50																																																																																															
		ERA-3YKD		36K ~ 330K	± 100																																																																																															
		ERA-6YED	0805	1 / 10 W	10 ~ 91	± 0.5	± 25	2.0 x 1.25 x 0.5	5,000																																																																																											
		ERA-6YHD		100 ~ 100 K	± 50																																																																																															
		ERA-6YKD		110K ~ 1M	± 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	● 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 ± 10%																																																																																													
					5.6 ~ 470 K	± 5	3900 ± 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 ± 10%																																																																																													
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		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	● 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	± 200 x 10 ⁻⁶ / °C	0.8 x 0.6 x 0.35	10,000	● Space saving design using unbalanced pie-type attenuator	EXB-18V	0201 x 4 Flat Term	1 / 32 W	10 ~ 1 M	± 5		1.4 x 0.6 x 0.35	EXB-N8V	0402 x 4 Concave Term	1 / 32 W	1 ~ 1 M	± 5	1 - 100Ω ± 600/-100x10 ⁻⁵ / °C	2.0 x 1.0 x 0.45	EXB-24V	0402 x 2 Convex Term	1 / 16 W	1 ~ 1 M	± 5	10 - 1 M : ± 200 10 > : -100 - + 600	1.0 x 1.0 x 0.35	10,000	● High density of resistors in single array chip ● Improved placement efficiency (2 to 4 times greater) compared to flat chip type resistors	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		3.8 x 1.6 x 0.45	EXB-34V	0603 x 2 Convex Term		1.6 x 1.6 x 0.50	EXB-38V	0603 x 4 Convex Term	1 / 16 W Element	3.2 x 1.6 x 0.50	EXB-V4V	0603 x 2 Concave Term		1.6 x 1.6 x 0.60	EXB-V8V	0603 x 4 Concave Term		3.2 x 1.6 x 0.60	EXB-S8V	0805 x 4 Concave Term	1 / 10 W Element	10 ~ 1 M	5.08 x 2.2 x 0.70	2,500	 	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	● 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 RC-NETWORK	EZA-DT	1206	R=1 / 16 W C=12 V	Combination of R and C R = 22, 47, 100, 220, 470, 1KΩ C = 22, 47 100 pF	
 	CHIP RESISTOR ARRAY	EXB-14V	0201 x 2 Flat Term	1 / 32 W	10 ~ 1 M			± 5	± 200 x 10 ⁻⁶ / °C	0.8 x 0.6 x 0.35	10,000	● Space saving design using unbalanced pie-type attenuator																																																																																								
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		EXB-V4V	0603 x 2 Concave Term							1.6 x 1.6 x 0.60																																																																																										
		EXB-V8V	0603 x 4 Concave Term							3.2 x 1.6 x 0.60																																																																																										
		EXB-S8V	0805 x 4 Concave Term	1 / 10 W Element	10 ~ 1 M			5.08 x 2.2 x 0.70	2,500																																																																																											
		 	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	● 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 RC-NETWORK	EZA-DT	1206	R=1 / 16 W C=12 V	Combination of R and C R = 22, 47, 100, 220, 470, 1KΩ C = 22, 47 100 pF		3.2 x 1.6 x 0.65	5,000	● 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 ±1%				E-24 ±5%, 0.5%, 0.1%	E-12 ±10%	E-6 ±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 ±1%				E-24 ±5%, 0.5%, 0.1%	E-12 ±10%	E-6 ±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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