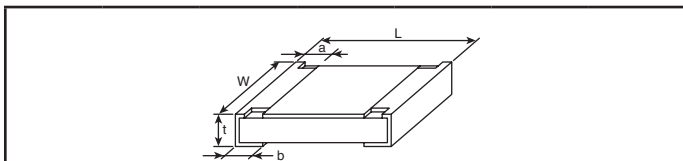


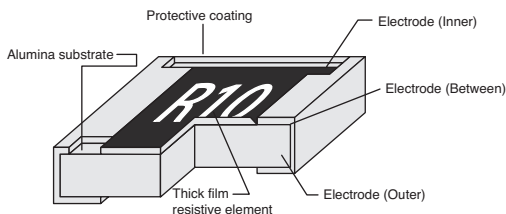
PANASONIC Current Sense Resistors Panasonic

RoHS Compliant This product is RoHS compliant.

ERJ-L SERIES

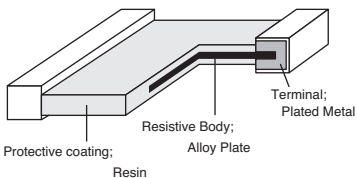


Type (in.)	DIMENSIONS: (mm)					Mass(lb) (g/1000pcs.)
	L	W	a	b	c	
ERJL03 (0603)	1.60 (±0.15)	0.80 (0.15±0.05)	0.30 (±0.20)	0.30 (±0.15)	0.45 (±0.10)	2
ERJL06 (0805)	2.00 (±0.20)	1.25 (±0.15)	0.40 (±0.20)	0.40 (±0.20)	0.60 (±0.10)	4
ERJL08 (1206)	3.20 (0.05±0.20)	1.60 (0.05±0.15)	0.50 (±0.20)	0.50 (±0.20)	0.60 (±0.10)	10
ERJL12 (1812)	4.50 (±0.20)	3.20 (±0.20)	0.50 (±0.20)	0.50 (±0.20)	0.60 (±0.10)	27
ERJL14 (1210)	3.20 (±0.20)	2.50 (±0.20)	0.50 (±0.20)	0.50 (±0.20)	0.60 (±0.10)	16
ERJL1D (2010)	5.00 (±0.20)	2.50 (±0.20)	0.60 (±0.20)	0.60 (±0.20)	0.60 (±0.10)	27
ERJL1W (2512)	6.40 (±0.20)	3.20 (±0.20)	0.65 (±0.20)	1.30 (±0.20)	1.10 (±0.10)	79

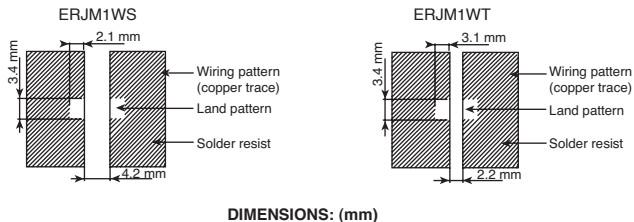


ERJ-M1W SERIES

- Features:**
- Low resistance values and high precision (1mΩ to 20mΩ)
 - Stable resistance not influenced by measurement position
 - High heat emission
 - Low profile, strong body
 - Inductance less than 1.0nH for the metal plate structure



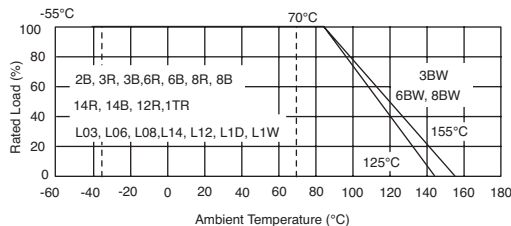
Recommended Land Pattern



DIMENSIONS: (mm)

Power Derating Curve

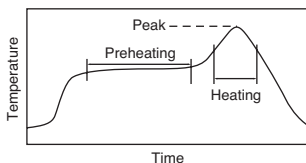
For resistors operated in ambient temperatures above 85°C, power rating shall be derated in accordance with the figure on the right.



Recommended Soldering Conditions:

- Reflow soldering shall be performed a maximum of two times
- Please contact us for additional information when used in conditions other than those specified
- Please measure the temperature of the terminals and study every kind of solder and printed circuit board for solderability before actual use

For soldering (Example: Sn/Pb)		
	Temperature	Time
Preheating	140°C to 160°C	60s to 120s
Main heating	Above 200°C	30s to 40s
Peak	235°C±5°C	max. 10s



For lead-free soldering (Example: Sn/Ag/Cu)		
	Temperature	Time
Preheating	150°C to 180°C	60s to 120s
Main heating	Above 230°C	30s to 40s
Peak	max. 260°C	max. 10s

Recommended soldering conditions for flow

	For soldering		For lead-free soldering	
	Temperature	Time	Temperature	Time
Preheating	140°C to 180°C	60s to 120s	150°C to 180°C	60s to 120s
Soldering	245°C ± 5°C	20s to 30s	max. 260°C	max. 10s

Type	Part No. (in.)	DIMENSIONS: (mm)				Mass(lb) (g/1000pcs.)
		L	W	T	a	
S Type	ERJM1WS (2512)	6.40 (±0.25)	3.25 (±0.25)	0.80 (±0.30)	1.00 (±0.25)	70
T Type	ERJM1WT (2512)	6.40 (±0.40)	0.30 (±0.25)	0.80 (±0.30)	2.10 (±0.30)	90

TABLE OF STOCKED VALUES										
Case Size	Value (mΩ)	Code	Case Size	Value (mΩ)	Code	Case Size	Value (mΩ)	Code	Value (mΩ)	Code
1206	75	75M	1812	33	33M	2512	1	1M0	12	12M
1206	100	10C	1812	39	39M	2512	1.5	1M5	15	15M
1210	100	10C	1812	47	47M	2512	2	2M0	16	16M
1210	22	22M	1812	50	50M	2512	2.5	2M5	20	20M
1210	33	33M	2010	47	47M	2512	3	3M0	47	47M
1210	39	39M	2010	75	75M	2512	4	4M0	50	50M
1210	47	47M	2010	100	10C	2512	5	5M0	100	10C
1210	50	50M				2512	6	6M0		
1212	20	20M				2512	8	8M0		
1212	22	22M				2512	10	10M		

For quantities greater than listed, call for quote.

Size	MOUSER STOCK NO.		Panasonic Part No.	Value (mΩ)	Power Rating @85°C	Tolerance	T.C.R. (ppm/°C)	Price Each			Reel Qty.	Price Per Piece
	Value	Suffix						1	100	500		
0603	667-ERJ-L03KF	Code V	ERJ-L03KF-Code-V	47-100	1/10W	±1%	±200	.70	.27	.194	5000	.096
0805	667-ERJ-L06KF	Code V	ERJ-L06KF-Code-V	47-100	1/8W	±1%	±100	.74	.285	.205	5000	.101
1206	667-ERJ-L08KF	Code V	ERJ-L08KF-Code-V	47-100	1/4W	±1%	±100	.91	.351	.252	5000	.124
1210	667-ERJ-L14KF	Code U	ERJ-L14KF-Code-U	0.1-50	0.25	±1%	±300	.83	.318	.229	5000	.113
1812	667-ERJ-L12KF	Code U	ERJ-L12KF-Code-U	20-50	0.5	±1%	±300	1.28	.595	.442	5000	.221
2010	667-ERJ-L1DKF	Code U	ERJ-L1DKF-Code-U	47-100	0.5	±1%	±100	1.28	.595	.442	5000	.221
2010	667-ERJ-L1DUF	Code U	ERJ-L1DUF-Code-U	75	0.5	±1%	±100	1.35	.63	.468	5000	.234
2512	667-ERJ-L1WKJ	Code U	ERJ-L1WKJ-Code-U	0.1-50	1	±5%	±100	.97	.656	.482	3000	.254
2512	667-ERJ-M1WTF	Code U	ERJ-M1WTF-Code-U	1-1.5	1W	±1%	350±100	1.18	.80	.588	3000	.31
2512	667-ERJ-M1WSF	Code U	ERJ-M1WSF-Code-U	3.0-4.0	1W	±1%	±350	1.00	.68	.50	3000	.263
2512	667-ERJ-M1WSJ	Code U	ERJ-M1WSF-Code-U	5.0-20	1W	±1%	±350	1.00	.68	.50	3000	.263
2512	667-ERJ-M1WSJ	Code U	ERJ-M1WSJ-Code-U	10-20	1W	±5%	±100	.95	.646	.475	3000	.25