



Features

- Formerly J.W. Miller® model
- Current rating up to 22.7 A
- Toroidal core
- RoHS compliant*

Applications

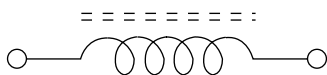
- Input/output of DC/DC converters
- Industrial electronics
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

PM2110 Series - High Current SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 kHz		DCR Max. (mΩ)	Idc (A)	Dim. A Max. mm/(in.)
	(μH)	Tol. (%)			
PM2110-1R0M-RC	1.0	±20	2	22.7	14.48 / (0.57)
PM2110-1R2M-RC	1.2	±20	2	20.3	14.48 / (0.57)
PM2110-1R5M-RC	1.5	±20	2	20.3	14.48 / (0.57)
PM2110-1R8M-RC	1.8	±20	3	18.5	14.48 / (0.57)
PM2110-2R2M-RC	2.2	±20	3	17.2	14.48 / (0.57)
PM2110-2R7M-RC	2.7	±20	4	16.0	14.48 / (0.57)
PM2110-3R3M-RC	3.3	±20	4	16.0	14.48 / (0.57)
PM2110-3R9M-RC	3.9	±20	4	15.1	14.48 / (0.57)
PM2110-4R7M-RC	4.7	±20	4	14.4	14.48 / (0.57)
PM2110-5R6M-RC	5.6	±20	5	13.7	14.48 / (0.57)
PM2110-6R8M-RC	6.8	±20	5	13.1	14.48 / (0.57)
PM2110-8R2M-RC	8.2	±20	6	12.6	14.48 / (0.57)
PM2110-100K-RC	10	±10	7	11.7	14.48 / (0.57)
PM2110-120K-RC	12	±10	7	11.3	14.48 / (0.57)
PM2110-150K-RC	15	±10	8	10.7	14.48 / (0.57)
PM2110-180K-RC	18	±10	9	10.2	14.48 / (0.57)
PM2110-220K-RC	22	±10	10	9.7	14.48 / (0.57)
PM2110-270K-RC	27	±10	14	8.2	13.72 / (0.54)
PM2110-330K-RC	33	±10	19	7.0	13.21 / (0.52)
PM2110-390K-RC	39	±10	20	6.8	15.75 / (0.62)
PM2110-470K-RC	47	±10	22	6.5	15.75 / (0.62)
PM2110-560K-RC	56	±10	24	6.2	15.75 / (0.62)
PM2110-680K-RC	68	±10	27	5.9	15.75 / (0.62)
PM2110-820K-RC	82	±10	29	5.6	15.75 / (0.62)
PM2110-101K-RC	100	±10	32	5.4	15.75 / (0.62)
PM2110-121K-RC	120	±10	35	5.1	15.75 / (0.62)
PM2110-151K-RC	150	±10	49	4.3	14.99 / (0.59)
PM2110-181K-RC	180	±10	66	3.7	13.46 / (0.53)
PM2110-221K-RC	220	±10	74	3.5	15.24 / (0.60)
PM2110-271K-RC	270	±10	82	3.4	15.24 / (0.60)
PM2110-331K-RC	330	±10	90	3.2	15.24 / (0.60)
PM2110-391K-RC	390	±10	98	3.1	15.24 / (0.60)
PM2110-471K-RC	470	±10	133	2.6	14.48 / (0.57)
PM2110-561K-RC	560	±10	146	2.5	14.48 / (0.57)
PM2110-681K-RC	680	±10	202	2.1	13.72 / (0.54)
PM2110-821K-RC	820	±10	221	2.0	15.24 / (0.60)
PM2110-102K-RC	1000	±10	244	1.9	15.24 / (0.60)

Electrical Schematic



Typical Part Marking



Additional Information

Click these links for more information:



PRODUCT
SELECTOR



TECHNICAL
LIBRARY



INVENTORY



SAMPLES



CONTACT

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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General Specifications

Test Voltage 0.1 V

Operating Temperature

..... -55 °C to +105 °C

(Temperature rise included)

Storage Temperature ... -55 °C to +105 °C

Moisture Sensitivity Level 1

ESD Classification (HBM)..... N/A

Materials

Core Iron

Wire Enameled copper

Adhesive Epoxy resin

Terminal Sn/Ag/Cu

Rated Current

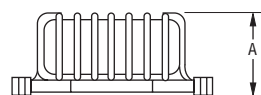
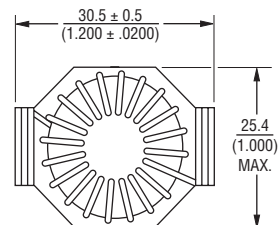
..... See "Inductance vs. Current" table

Temperature Rise

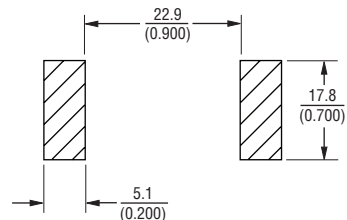
..... 30 °C typical at Idc

Packaging 63 pcs. per box

Product Dimensions



Recommended Pad Layout



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

PM2110 Series - High Current SMD Power Inductors

BOURNS®

Inductance vs. Current

L (μH)	Idc (A) to decrease L by 10 %	Idc (A) to decrease L by 20 %	Idc (A) to decrease L by 30 %	Idc (A) to decrease L by 40 %	Idc (A) to decrease L by 50 %
1	17.0	22.7	37.0	50.0	66.0
1.2	13.5	21.2	30.0	40.0	53.0
1.5	13.2	21.0	29.9	39.8	52.8
1.8	11.1	17.9	25.0	33.5	44.5
2.2	9.50	15.4	21.9	28.6	38.1
2.7	8.30	13.5	18.8	25.1	33.5
3.3	8.30	13.4	18.8	25.0	33.4
3.9	7.40	11.9	16.6	22.4	29.8
4.7	6.70	10.7	15.0	20.1	26.8
5.6	6.10	9.70	13.6	18.2	24.4
6.8	5.55	8.90	12.5	16.7	22.3
8.2	5.15	8.25	11.5	15.5	20.6
10	4.45	7.05	9.95	13.4	17.8
12	4.15	6.70	9.35	12.6	16.7
15	3.70	5.95	8.30	11.2	14.9
18	3.35	5.35	7.50	10.1	13.4
22	2.80	4.84	6.80	9.15	12.1
27	2.65	4.17	5.97	8.02	10.7
33	2.40	3.80	5.35	7.25	9.55
39	2.20	3.53	5.00	6.70	8.90
47	2.05	3.25	4.54	6.05	8.10
56	1.85	2.98	4.15	5.55	7.50
68	1.67	2.67	3.75	5.02	6.70
82	1.51	2.43	3.40	4.45	6.08
100	1.39	2.23	3.11	4.18	5.58
120	1.26	2.02	2.82	3.78	5.05
150	1.13	1.81	2.54	3.40	4.54
180	1.03	1.64	2.30	3.08	4.12
220	0.93	1.45	2.08	2.79	3.70
270	0.83	1.34	1.86	2.51	3.35
330	0.76	1.21	1.70	2.28	3.04
390	0.69	1.11	1.56	2.07	2.79
470	0.64	1.02	1.42	1.91	2.55
560	0.58	0.93	1.30	1.74	2.33
680	0.53	0.84	1.17	1.58	2.11
820	0.48	0.77	1.07	1.44	1.93
1000	0.43	0.69	0.97	1.30	1.74

REV. 04/25

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