



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)

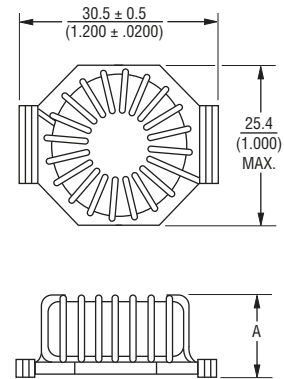
General Specifications

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

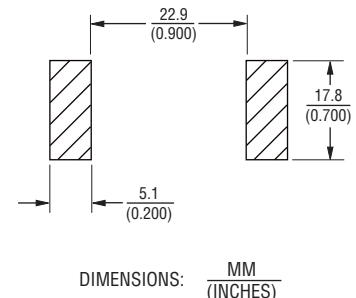
Materials

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 77 pcs. per box

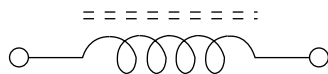
Product Dimensions



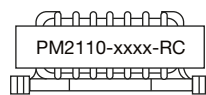
Recommended Pad Layout



Electrical Schematic



Typical Part Marking



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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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. 03/18

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Users should verify actual device performance in their specific applications.

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