

Features

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

Applications

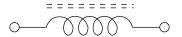
- Input/output of DC/DC converters
- Industrial electronics
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - · Car radios

PM2110 Series - High Current SMD Power Inductors

Electrical Specifications

	Inductance 1 kHz				
Bourns Part No.	(μH)	Tol. (%)	DCR Max. (mΩ)	ldc (A)	Dim. A Max. mm/(in.)
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

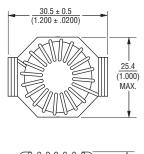


Typical Part Marking

PM2110-xxxx-RC

General Specifications Test Voltage......0.1 V Reflow Soldering 245 °C; 5 seconds Operating Temperature-55 °C to +105 °C (Temperature rise included) Storage Temperature ...-55 °C to +105 °C Resistance to Soldering Heat260 °C, 10 sec. max. **Materials** Core......Iron Wire Enameled copper Adhesive.....Epoxy resin Terminal Sn/Ag/Cu Rated CurrentSee "Inductance vs. Current" table Temperature Rise

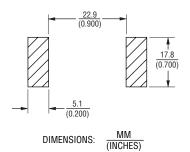
Product Dimensions



......30 °C typical at ldc Packaging......77 pcs. per box



Recommended Pad Layout



^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

PM2110 Series - High Current SMD Power Inductors

BOURNS

Inductance vs. Current

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