



Features

- Formerly *JW.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

Bourns Part No.	Inductance 1 kHz		Test Frequency (MHz)	DCR Max. (mΩ)	Idc (A)	Dim. A Max. mm/(in.)
	(μH)	Tol. (%)				
PM2110-1R0M-RC	1.0	±20	7.96	2	22.7	14.48 / (0.57)
PM2110-1R2M-RC	1.2	±20	7.96	2	20.3	14.48 / (0.57)
PM2110-1R5M-RC	1.5	±20	7.96	2	20.3	14.48 / (0.57)
PM2110-1R8M-RC	1.8	±20	7.96	3	18.5	14.48 / (0.57)
PM2110-2R2M-RC	2.2	±20	7.96	3	17.2	14.48 / (0.57)
PM2110-2R7M-RC	2.7	±20	7.96	4	16.0	14.48 / (0.57)
PM2110-3R3M-RC	3.3	±20	7.96	4	16.0	14.48 / (0.57)
PM2110-3R9M-RC	3.9	±20	7.96	4	15.1	14.48 / (0.57)
PM2110-4R7M-RC	4.7	±20	7.96	4	14.4	14.48 / (0.57)
PM2110-5R6M-RC	5.6	±20	7.96	5	13.7	14.48 / (0.57)
PM2110-6R8M-RC	6.8	±20	7.96	5	13.1	14.48 / (0.57)
PM2110-8R2M-RC	8.2	±20	7.96	6	12.6	14.48 / (0.57)
PM2110-100K-RC	10	±10	2.52	7	11.7	14.48 / (0.57)
PM2110-120K-RC	12	±10	2.52	7	11.3	14.48 / (0.57)
PM2110-150K-RC	15	±10	2.52	8	10.7	14.48 / (0.57)
PM2110-180K-RC	18	±10	2.52	9	10.2	14.48 / (0.57)
PM2110-220K-RC	22	±10	2.52	10	9.7	14.48 / (0.57)
PM2110-270K-RC	27	±10	2.52	14	8.2	13.72 / (0.54)
PM2110-330K-RC	33	±10	2.52	19	7.0	13.21 / (0.52)
PM2110-390K-RC	39	±10	2.52	20	6.8	15.75 / (0.62)
PM2110-470K-RC	47	±10	2.52	22	6.5	15.75 / (0.62)
PM2110-560K-RC	56	±10	2.52	24	6.2	15.75 / (0.62)
PM2110-680K-RC	68	±10	2.52	27	5.9	15.75 / (0.62)
PM2110-820K-RC	82	±10	2.52	29	5.6	15.75 / (0.62)
PM2110-101K-RC	100	±10	0.796	32	5.4	15.75 / (0.62)
PM2110-121K-RC	120	±10	0.796	35	5.1	15.75 / (0.62)
PM2110-151K-RC	150	±10	0.796	49	4.3	14.99 / (0.59)
PM2110-181K-RC	180	±10	0.796	66	3.7	13.46 / (0.53)
PM2110-221K-RC	220	±10	0.796	74	3.5	15.24 / (0.60)
PM2110-271K-RC	270	±10	0.796	82	3.4	15.24 / (0.60)
PM2110-331K-RC	330	±10	0.796	90	3.2	15.24 / (0.60)
PM2110-391K-RC	390	±10	0.796	98	3.1	15.24 / (0.60)
PM2110-471K-RC	470	±10	0.796	133	2.6	14.48 / (0.57)
PM2110-561K-RC	560	±10	0.796	146	2.5	14.48 / (0.57)
PM2110-681K-RC	680	±10	0.796	202	2.1	13.72 / (0.54)
PM2110-821K-RC	820	±10	0.796	221	2.0	15.24 / (0.60)
PM2110-102K-RC	1000	±10	0.252	244	1.9	15.24 / (0.60)

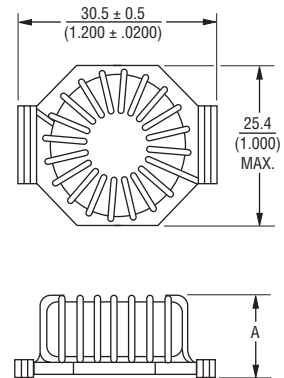
General Specifications

Test Voltage.....0.1 V
 Reflow Soldering245 °C; 5 seconds
 Operating Temperature...-55 °C to +105 °C
 (Temperature rise included)
 Storage Temperature...-55 °C to +105 °C
 Resistance to Soldering Heat
260 °C, 10 sec. max.

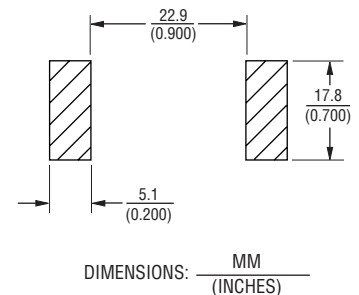
Materials

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

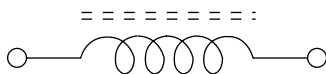
Product Dimensions



Recommended Layout



Electrical Schematic



Typical Part Marking



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

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