



Features

- Formerly **J.W. Miller**® model
- Current rating up to 22 A
- Toroidal core
- RoHS compliant*

Applications

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

PM2120 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. (%)			
PM2120-1R8M-RC	1.8	±20	3	22.0	20.83 / (0.82)
PM2120-2R2M-RC	2.2	±20	3	19.7	20.83 / (0.82)
PM2120-2R7M-RC	2.7	±20	3	19.7	20.83 / (0.82)
PM2120-3R9M-RC	3.9	±20	4	18.0	20.83 / (0.82)
PM2120-4R7M-RC	4.7	±20	5	16.6	20.83 / (0.82)
PM2120-5R6M-RC	5.6	±20	5	15.6	20.83 / (0.82)
PM2120-6R8M-RC	6.8	±20	6	14.7	20.83 / (0.82)
PM2120-8R2M-RC	8.2	±20	6	14.7	20.83 / (0.82)
PM2120-100K-RC	10	±10	7	13.9	20.83 / (0.82)
PM2120-120K-RC	12	±10	8	12.7	20.83 / (0.82)
PM2120-150K-RC	15	±10	9	12.2	20.83 / (0.82)
PM2120-180K-RC	18	±10	9	11.8	20.83 / (0.82)
PM2120-220K-RC	22	±10	11	11.0	20.83 / (0.82)
PM2120-270K-RC	27	±10	12	10.4	20.83 / (0.82)
PM2120-330K-RC	33	±10	13	10.1	20.83 / (0.82)
PM2120-390K-RC	39	±10	14	9.6	20.83 / (0.82)
PM2120-470K-RC	47	±10	19	8.2	20.07 / (0.79)
PM2120-560K-RC	56	±10	21	7.9	20.07 / (0.79)
PM2120-680K-RC	68	±10	29	6.7	19.56 / (0.77)
PM2120-820K-RC	82	±10	32	6.4	22.10 / (0.87)
PM2120-101K-RC	100	±10	35	6.1	22.10 / (0.87)
PM2120-121K-RC	120	±10	39	5.8	22.10 / (0.87)
PM2120-151K-RC	150	±10	43	5.5	22.10 / (0.87)
PM2120-181K-RC	180	±10	47	5.3	21.08 / (0.83)
PM2120-221K-RC	220	±10	52	5.0	21.08 / (0.83)
PM2120-271K-RC	270	±10	72	4.2	20.32 / (0.80)
PM2120-331K-RC	330	±10	100	3.6	19.81 / (0.78)
PM2120-391K-RC	390	±10	108	3.5	19.81 / (0.78)
PM2120-471K-RC	470	±10	119	3.3	21.59 / (0.85)
PM2120-561K-RC	560	±10	130	3.2	21.59 / (0.85)
PM2120-681K-RC	680	±10	142	3.0	21.59 / (0.85)
PM2120-821K-RC	820	±10	157	2.9	21.59 / (0.85)
PM2120-102K-RC	1000	±10	215	2.5	20.83 / (0.82)

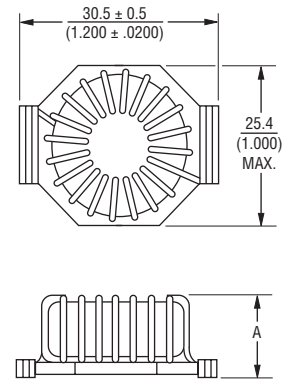
General Specifications

Test Voltage 0.1 V
 Operating Temperature -55 °C to +105 °C
 (Temperature rise included)
 Storage Temperature ... -55 °C to +105 °C
 Moisture Sensivity Level 1
 ESD Classification (HBM)..... N/A

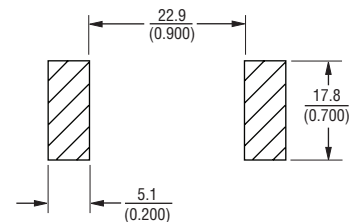
Materials

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

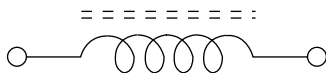


Recommended Pad Layout

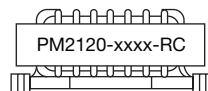


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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.
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PM2120 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 %
1.8	14.6	23.4	32.9	43.8	58.5
2.2	13.1	21.0	29.5	39.3	52.5
2.7	11.7	18.7	26.3	35.1	46.9
3.9	9.70	15.5	21.8	29.1	38.9
4.7	8.90	14.3	20.0	26.7	35.7
5.6	8.10	13.0	18.2	24.3	32.4
6.8	7.40	11.9	16.7	22.2	29.6
8.2	6.70	10.7	15.1	20.1	26.8
10	6.10	9.77	13.7	18.3	24.4
12	5.60	8.97	12.6	16.8	22.4
15	4.90	7.85	11.0	14.7	19.6
18	4.60	7.37	10.4	13.8	18.4
22	4.10	6.57	9.23	12.3	16.4
27	3.70	5.93	8.33	11.1	14.8
33	3.35	5.37	7.54	10.1	13.4
39	3.10	4.97	6.98	9.30	12.4
47	2.80	4.49	6.30	8.40	11.2
56	2.55	4.09	5.74	7.65	10.2
68	2.35	3.76	5.29	7.05	9.41
82	2.15	3.44	4.84	6.45	8.61
100	1.92	3.08	4.32	5.76	7.69
120	1.75	2.80	3.94	5.25	7.01
150	1.58	2.53	3.56	4.74	6.33
180	1.43	2.29	3.22	4.29	5.73
220	1.30	2.08	2.93	3.90	5.21
270	1.18	1.89	2.66	3.54	4.73
330	1.11	1.78	2.50	3.33	4.45
390	0.97	1.55	2.18	2.91	3.89
470	0.89	1.43	2.00	2.67	3.57
560	0.81	1.30	1.82	2.43	3.24
680	0.74	1.19	1.67	2.22	2.96
820	0.67	1.07	1.51	2.01	2.68
1000	0.61	0.98	1.37	1.83	2.44

REV. 01/26

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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