

EP-B Series

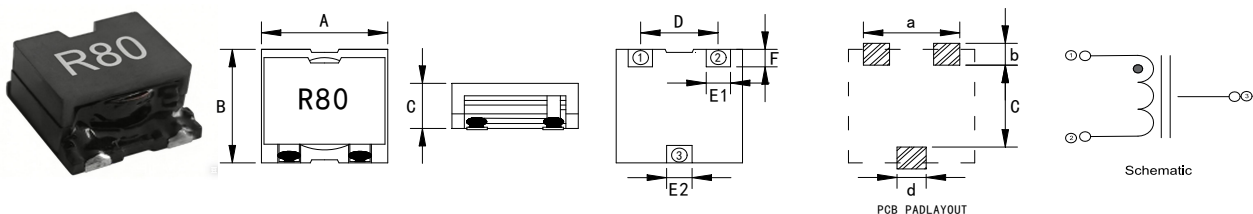
Features

- High current, low loss of iron powder core.
- Low profile for machine placement.
- Minimize electromagnetic interference
- Prevent EMI effect via precise impedance
- Suppress common mode noise.
- Custom design available.

Test Conditions

- All test data is referenced to 25°C ambient.
- Operating temperature range -40°C to +125°C.(Including self - temperature rise)
- Isat :DC current(A) that will cause Io to drop approximately 30%.
- Irms :DC current(A) that will cause an approximate ΔT of 40°C.
- The part temperature(ambient + temp rise)should not exceed 125°C under worst case operating conditions.
Circuit design,component placement, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature,part temperature should be verified in the end application.

External Dimensions (Unit:mm)



TYPE	A Max	B Max	C Max	D	E1	E2	F	a(Ref)	b(Ref)	c(Ref)	d(Ref)	Q'TY/Reel
EP1055	10.4	10.6	5.5	5.5±0.5	2.5Ref.	1.5Ref.	2.0Ref.	8.2	2.5	5.8	2.4	700
EP1258	13.1	13.5	5.8	7.0±0.5	2.5Ref.	2.5Ref.	2.0Ref.	9.8	2.5	8.0	3.0	500
EP1390	13.1	13.5	9.0	7.0±0.5	2.5Ref.	2.5Ref.	2.0Ref.	9.8	2.5	8.0	3.0	300
EP1482	14.9	15.4	8.2	9.0±0.5	2.8Ref.	2.5Ref.	1.8Ref.	13.0	2.7	10.0	3.5	350
EP1412	14.9	15.4	12.2	9.0±0.5	2.8Ref.	2.5Ref.	1.8Ref.	13.0	2.7	10.0	3.5	250
EP1780	17.3	18.8	8.0	10.9±0.5	2.6±0.3	3.0±0.3	3.0±0.5	15.0	4.5	10.9	4.3	200
EP1785			8.7									200
EP1795			9.6									200
EP1710			10.3									200
EP1711			11.3									180
EP1980	19.9	18.5	8.0	13.1±0.5	2.5±0.3	3.0±0.3	3.0±0.5	17.0	4.5	10.7	4.3	200
EP1990			9.0									200
EP1995			9.6									200
EP1910			10.6									180

Part Number Code

EP	1055	M	R80	B
Series Name	Dimensions: L*W*H	Tolerance M:20% N:30%	Inductance	Internal control

EP-B Series

Part Number	Inductance (μ H) @100KHz/0.1V	DC Resistance (m Ω) Max.	Heat Rating Current I _{rms} (A)Typ.	Saturation Current I _{sat} (A)Typ.
EP1055MR80B	0.8	5	16.3	25.6
EP1055M1R0B	1	5	16.3	17.5
EP1055M1R2B	1.2	7	15	21.3
EP1055M1R3B	1.3	5	16.3	17.2
EP1055M1R5B	1.5	5	16.3	14.5
EP1055M1R8B	1.8	7	15	14.3
EP1055M2R0B	2	10	11.5	16.2
EP1055M2R2B	2.2	5	16.3	10
EP1055M2R5B	2.5	8.5	12	12.1
EP1055M3R2B	3.2	7	15	8.5
EP1055M4R0B	4	10	11.5	8.8
EP1055M4R3B	4.3	8.5	12	7
EP1055M5R7B	5.7	10	11.5	6
EP1258MR33B	0.33	1	18	43
EP1258MR65B	0.65	2.5	16	28
EP1258M1R0B	1	3	13	33.5
EP1258M1R8B	1.8	3	13	20
EP1258M2R7B	2.7	3	13	14
EP1258M3R3B	3.3	6.5	9.4	14
EP1258M4R0B	4	6.5	9.4	13
EP1258M4R7B	4.7	6.5	9.4	12
EP1258M6R0B	6	6.5	9.4	9.5
EP1258M8R0B	8	11	7.6	9
EP1258M100B	10	11	7.2	7.5
EP1390M100B	10	15	9.2	13.16
EP1390M150B	15	15	9.2	8.6
EP1390M220B	22	23.1	7.7	7.4
EP1390M330B	33	23.1	7.7	4.8

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Part Number	Inductance (μ H) @100KHz/0.1V	DC Resistance (m Ω) Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
EP1390M470B	47	23.1	7.7	3.2
EP1482NR40B	0.4	1.2	23	66
EP1482MR90B	0.9	1.5	21.5	45
EP1482M1R5B	1.5	2	20	34
EP1482M2R4B	2.4	3.2	17.5	28
EP1482M3R4B	3.4	5	16	23
EP1482M4R7B	4.7	6	12.5	19
EP1482M6R1B	6.1	7.8	11	18.5
EP1482M7R7B	7.7	9.9	10	15.5
EP1482M9R5B	9.5	13.3	8.5	14
EP1482M100B	10	9.9	10	11.5
EP1482M120B	12	13.3	8.5	10
EP1482M470B	47	27	2.5	3
EP1412M4R7B	4.7	4.5	13	18.4
EP1412M6R1B	6.1	5.4	12.5	16.4
EP1412M7R7B	7.7	7.6	10.3	14.8
EP1412M100B	10	8.4	9.6	13.1
EP1412M120B	12	9.8	9	11.8
EP1412M140B	14	11.3	8.3	10.9
EP1412M220BL	22	11.3	8.3	6.4
EP1412M150B	15	11.4	8	9.5
EP1412M220B	22	13.2	7	8
EP1412M330B	33	20.4	6	6.5
EP1412M470B	47	30	3.5	5
EP1780M1R0B	1	1.15	36	34
EP1785M1R5B	1.5	1.6	30	37
EP1785M6R8B	6.8	6.8	14.4	15.5
EP1785M100B	10	7.9	13	12.2
EP1795M2R2B	2.2	2.1	26.8	34
EP1795M150B	15	11.1	11.7	12.6
EP1710M3R3B	3.3	2.6	25	28
EP1710M4R7B	4.7	2.6	25	18.6
EP1710M200B	20	13.25	10	11.3
EP1711M300B	30	16.5	8.5	9.2

EP-B Series

Part Number	Inductance (μH) @100KHz/0.1V	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
EP1980M1R0B	1	1.09	36.3	46.6
EP1980M6R8B	6.8	8.74	12.7	21.3
EP1980M100B	10	10.12	11.7	15.8
EP1990M1R5B	1.5	1.55	30.2	48.1
EP1990M150B	15	12.65	10.7	14.7
EP1995M2R2B	2.2	2.07	27.2	43.6
EP1995M200B	20	15.53	9.5	13.5
EP1910M3R3B	3.3	2.59	25.1	35.1
EP1910M4R7B	4.7	2.59	25.1	25.5
EP1910M300B	30	19.55	8.6	11.5