APZBX Series

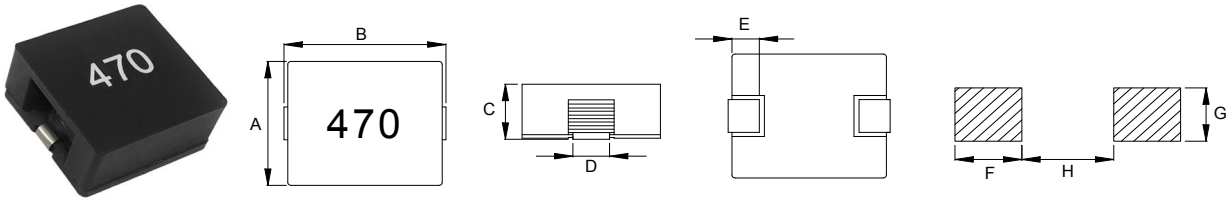
Features

- High current,low loss of iron powder core.
- Minimize electromangnetic intreference.
- Prevent EMI effect via precise impedance.
- Lowest DCR/uH, in this package size.
- Suppress common mode noise.

Test Conditions

- All test data is referenced to 25℃ ambient.
- Operating temperature range -40℃ to +125℃.(Including self - temperature rise)
- Isat :DC current(A) that will cause lo to drop approximately 30%.
- Irms :DC current(A) that will cause an approximate△T of 50℃.
- The part temperature(ambient + temp rise)should not exceed 125℃ 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	B	C	D	E	F	G	H	Q'TY/Reel
APZBX0540	5.3±0.3	5.6±0.3	4.3Max	1.0±0.3	1.2±0.5	2.2	2.0	2.0	1500
APZBX0630	6.9±0.4	7.0±0.4	3.3Max	1.2±0.3	1.8±0.5	2.7	2.2	2.4	1500
APZBX0640	6.9±0.4	7.0±0.4	4.0Max	1.2±0.3	1.8±0.5	2.7	2.2	2.4	1000
APZBX0650	6.9±0.4	7.0±0.4	5.0Max	1.2±0.3	1.8±0.5	2.7	2.2	2.4	1000
APZBX1030	10.6±0.4	10.7±0.5	3.3Max	2.0±0.5	2.5±0.5	3.5	4.0	3.8	1000
APZBX1040	10.2±0.5	10.5±0.5	4.2Max	2.0±0.5	2.5±0.5	3.5	4.0	3.8	1000
APZBX1050	10.2±0.5	10.5±0.5	5.0Max	2.0±0.5	2.5±0.5	3.5	4.0	3.8	800
APZBX1235	12.8±0.5	13.0±1.0	3.5Max	2.5±0.5	3.0±1.0	4.5	5.0	6.0	600
APZBX1250	12.8±0.5	13.0±1.0	5.0Max	2.5±0.5	3.0±1.0	4.5	5.0	6.0	500
APZBX1265	12.8±0.5	13.0±1.0	6.5Max	2.5±0.5	3.0±1.0	4.5	5.0	6.0	500
APZBX1809	18.2±0.5	18.3±1.0	9.2Max	3.5±1.0	4.5±1.0	6.0	6.0	7.3	250
APZBX2212	22.0±1.0	22.5±1.0	12.4Max	3.5±1.0	5.5±1.0	7.0	6.0	9.0	120

Part Number Code

APZBX	05	40	M	R22
Series Name	Dimensions: L*W	Dimensions: H	Tolerance M:20% N:30%	Inductance

APZBX Series

Part Number	Inductance (μH) @100KHz/0.1V	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Max.	Saturation Current Isat (A)Typ.
APZBX0540MR22	0.22	1.38	20	25
APZBX0540MR33	0.33	1.93	18.5	20
APZBX0540MR47	0.47	3.03	15	16
APZBX0540MR68	0.68	4.4	12.75	13.5
APZBX0540M1R0	1	5.23	11.5	11.5
APZBX0540M1R5	1.5	8.97	9	9
APZBX0540M2R2	2.2	12.43	7.5	7.5
APZBX0540M3R3	3.3	20.35	5.75	5.8
APZBX0540M4R7	4.7	26.95	4.6	4.7
APZBX0540M5R6	5.6	31.35	4.5	4.6
APZBX0630MR13	0.13	1	22	48
APZBX0630MR24	0.24	1.98	18	40
APZBX0630MR52	0.52	4.07	14	20
APZBX0630MR95	0.95	6.82	11	13
APZBX0630M1R2	1.2	9.46	8.5	13
APZBX0630M1R5	1.5	13.97	7.5	12
APZBX0630M2R0	2	15.62	6.5	9
APZBX0640MR22	0.22	1.21	21	32
APZBX0640MR40	0.4	2.04	19	25
APZBX0640MR68	0.68	3.41	17	20
APZBX0640M1R0	1	5.06	15	19
APZBX0640M1R5	1.5	7.26	11	14
APZBX0640M2R2	2.2	12.54	9	13
APZBX0640M3R3	3.3	18.92	6.5	11
APZBX0640M4R7	4.7	21.45	6	7
APZBX0650MR24	0.24	1.1	20	28
APZBX0650MR47	0.47	1.49	18	20
APZBX0650MR76	0.76	2.48	15.5	15

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Part Number	Inductance (μH) @100KHz/0.1V	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Max.	Saturation Current Isat (A)Typ.
APZBX0650M1R1	1.1	3.47	15	13
APZBX0650M1R5	1.5	4.73	14	11
APZBX0650M2R0	2	6.44	11.5	9
APZBX0650M3R3	3.3	9.9	9	8
APZBX0650M4R9	4.9	15.95	6.5	6.5
APZBX0650M6R5	6.5	23.65	6	6
APZBX0650M7R6	7.6	31.02	4.2	4.8
APZBX0650M8R5	8.5	33.55	4	4.5
APZBX0650M100	10	36.3	3.5	4
APZBX1030MR20	0.2	0.9	22	50
APZBX1030MR33	0.33	2.39	18	36
APZBX1030MR56	0.56	2.39	18	33
APZBX1030MR68	0.68	5.27	14	21
APZBX1030M1R0	1	5.27	14	21
APZBX1030M1R2	1.2	7.26	12	15
APZBX1030M1R5	1.5	7.26	12	18
APZBX1030M2R2	2.2	12.52	9	15
APZBX1040MR15	0.15	0.64	25	60
APZBX1040MR30	0.3	1.21	22	35
APZBX1040MR56	0.56	1.77	20	30
APZBX1040M1R0	1	3.63	16	20
APZBX1040M1R5	1.5	5.83	14	17
APZBX1040M2R0	2	8.03	11	13
APZBX1040M2R8	2.8	11.66	9.5	11
APZBX1040M4R3	4.3	15.51	8	8
APZBX1040M5R6	5.6	22.66	6.7	7.5
APZBX1050MR16	0.16	0.56	25	58
APZBX1050MR40	0.4	0.74	24	37
APZBX1050MR72	0.72	1.43	22	35
APZBX1050M1R2	1.2	1.98	20	25
APZBX1050M1R8	1.8	3.85	16	18
APZBX1050M2R4	2.4	5.23	14	17
APZBX1050M3R3	3.3	6.49	12	15
APZBX1050M4R2	4.2	7.81	11	14

APZBX Series

Part Number	Inductance (μH) @100KHz/0.1V	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Max.	Saturation Current Isat (A)Typ.
APZBX1050M5R5	5.5	11.33	10	12
APZBX1050M6R5	6.5	13.75	8.4	10
APZBX1050M7R8	7.8	14.96	8	9.5
APZBX1050M100	10	17.93	7.2	8.5
APZBX1050M160	16	37.95	5	6.5
APZBX1235NR25	0.25	0.83	24	60
APZBX1235MR68	0.68	1.74	22	40
APZBX1235M1R2	1.2	3.14	17	28
APZBX1235M1R8	1.8	6.16	14	22
APZBX1235M2R2	2.2	6.27	14	18
APZBX1235M3R3	3.3	8.91	12	14
APZBX1250MR19	0.19	0.55	29	60
APZBX1250MR47	0.47	0.99	26	50
APZBX1250MR90	0.9	1.76	24	28
APZBX1250M1R4	1.4	2.64	22	26
APZBX1250M2R3	2.3	4.07	17.5	17
APZBX1250M3R2	3.2	5.83	16	15
APZBX1250M4R8	4.8	11.55	11	13
APZBX1250M6R0	6	14.85	9.5	11.5
APZBX1250M8R2	8.2	12.76	10	11
APZBX1250M100	10	15.51	8.5	10
APZBX1265MR20	0.2	0.39	32	65
APZBX1265MR47	0.47	0.74	30	50
APZBX1265MR82	0.82	0.99	27	35
APZBX1265M1R3	1.3	1.98	25	25
APZBX1265M2R0	2	2.86	23	22
APZBX1265M2R8	2.8	3.63	20	17.5
APZBX1265M3R7	3.7	5.39	17	16
APZBX1265M4R7	4.7	7.7	13	15
APZBX1265M6R0	6	9.24	12	14
APZBX1265M7R3	7.3	6.49	13	12
APZBX1265M9R2	9.2	8.58	12	10.5
APZBX1265M110	11.3	10	11	9.5
APZBX1265M130	13	12.32	10	9

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Part Number	Inductance (μH) @100KHz/0.1V	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Max.	Saturation Current Isat (A)Typ.
APZBX1265M150	15.4	16.28	9	8
APZBX1265M180	18	24.2	7.5	7.5
APZBX1265M220	22	27.17	6	6.5
APZBX1265M330	33	33.55	5.5	5.5
APZBX1809MR82	0.82	0.58	41.5	65
APZBX1809M1R3	1.3	1.02	34.5	62
APZBX1809M1R9	1.9	1.3	32.5	52
APZBX1809M2R6	2.6	1.71	31.5	50
APZBX1809M3R5	3.5	3.35	22.5	37
APZBX1809M4R5	4.5	3.67	20.5	37
APZBX1809M5R6	5.6	4	19	33
APZBX1809M6R8	6.8	4.43	18.5	27
APZBX1809M100	10	7.45	15	21.5
APZBX1809M100F	10	7.45	16.5	18.5
APZBX1809M150F	15	9.72	14	14
APZBX1809M220F	22	15.77	11	11
APZBX1809M330F	33	23.44	8.5	9
APZBX1809M470F	47	36.18	6.8	7
APZBX2212M3R3F	3.3	1.87	29	45
APZBX2212M6R8F	6.8	2.31	28.5	31
APZBX2212M8R2F	8.2	2.97	25.5	30
APZBX2212M100F	10	3.74	21	26
APZBX2212M120F	12	4.73	19	25
APZBX2212M220F	22	7.7	15	18
APZBX2212M330F	33	14.52	11.5	15
APZBX2212M470F	47	21.12	9	12
APZBX2212M680F	68	30.03	7.5	9.5
APZBX2212M820F	82	33.44	7	8.5