

## APR-B Series

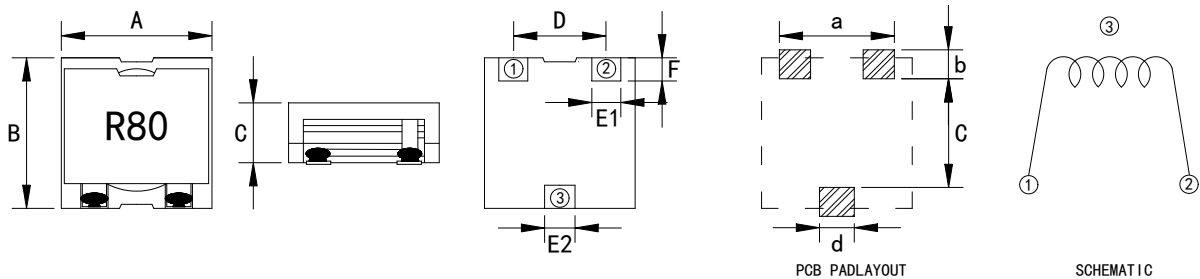
### Features

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

### Test Conditions

- All test data is referenced to 25°C ambient.
- Inductance measure condition at 100KHz, 0.1V.
- Operating temperature range -25°C to 125°C.(Including self - temperature rise)
- DC current (I<sub>rms</sub>) that will cause an approximate ΔT of 40°C.
- DC current (I<sub>sat</sub>) that will cause L<sub>o</sub> to drop approximately 30%.

### External Dimensions (Unit:m/m)



Type	A	B	C	D	E1	E2	F	a	b	c	d	Q'Ty/Reel
APR10B50	10.6MAX	10.6MAX	5.2MAX	5.5±0.5	2.5	1.5	2.0	8.2	2.5	5.8	2.4	800
APR13B55	13.0MAX	13.5MAX	5.8MAX	6.9±0.5	2.5	2.5	2.0	9.8	2.5	8.0	3.0	500
APR13B90	13.0MAX	13.5MAX	9.0MAX	6.9±0.5	2.5	2.5	2.0	9.8	2.5	8.0	3.0	300
APR14B80	14.9MAX	15.1MAX	8.2MAX	9.0±0.5	2.8	2.5	1.8	13.0	2.7	10.0	3.5	300
APR14B12	14.9MAX	15.1MAX	12.2MAX	9.0±0.5	2.8	2.5	1.8	13.0	2.7	10.0	3.5	250

### Part Number Code

APR    10    B    50    M    R80  
A       B       C       D       E       F

A: Series Name                      High Current Power Inductors  
 B: Dimensions(mm)                10: 10.6x10.6 Max  
 C: Materials                            B Type  
 D: Thickness(mm)                    50: 5.2 Max  
 E: Tolerance                            M: ±20%    N: ±30%  
 F: Inductance                           R80=0.8uH

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Part Number	Inductance (uH)	DC Resistance (mΩ) Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
APR10B50MR80	0.8	4.0	16.3	25.6
APR10B50M1R0	1.0	4.0	16.3	17.5
APR10B50M1R2	1.2	6.0	15.0	21.3
APR10B50M1R3	1.3	4.0	16.3	17.2
APR10B50M1R5	1.5	4.0	15.0	14.5
APR10B50M1R8	1.8	6.0	15.0	14.3
APR10B50M2R0	2.0	9.0	11.5	16.2
APR10B50M2R2	2.2	4.0	16.3	10.0
APR10B50M2R5	2.5	7.5	12.0	12.1
APR10B50M3R2	3.2	6.0	15.0	8.5
APR10B50M4R0	4.0	9.0	11.5	8.8
APR10B50M4R3	4.3	7.5	12.0	7.0
APR10B50M5R7	5.7	9.0	11.5	6.0
APR13B55MR33	0.33	0.85	16.9	43.0
APR13B55MR65	0.65	0.85	16.9	28.0
APR13B55M1R0	1.0	2.60	13.0	33.5
APR13B55M1R8	1.8	2.60	13.0	20.0
APR13B55M2R7	2.7	2.60	13.0	14.0
APR13B55M4R0	4.0	6.05	9.4	13.0
APR13B55M4R7	4.7	6.05	9.4	12.0
APR13B55M6R0	6.0	6.05	9.4	9.5
APR13B55M8R0	8.0	10.81	7.6	9.0
APR13B55M100	10.0	10.81	7.2	7.5
APR13B90M100	10.0	15.0	9.2	13.16
APR13B90M150	15.0	15.0	9.2	8.6
APR13B90M220	22.0	23.1	7.7	7.36
APR13B90M330	33.0	23.1	7.7	4.76
APR13B90M470	47.0	23.1	7.7	3.2
APR14B80NR40	0.4	1.2	23.0	66.0
APR14B80MR90	0.9	1.5	21.5	45.0
APR14B80M1R5	1.5	2.0	20.0	34.0
APR14B80M2R4	2.4	3.2	17.5	28.0
APR14B80M3R4	3.4	5.0	16.0	23.0
APR14B80M4R7	4.7	6.0	12.5	19.0

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Part Number	Inductance (uH)	DC Resistance (mΩ) Max.	Heat Rating Current I <sub>rms</sub> (A)Typ.	Saturation Current I <sub>sat</sub> (A)Typ.
APR14B80M6R1	6.1	7.8	11.0	18.5
APR14B80M7R7	7.7	9.9	10.0	15.5
APR14B80M9R5	9.5	13.3	8.5	14.0
APR14B80M100	10.0	9.9	10.0	11.5
APR14B80M120	12.0	13.3	8.5	10.0
APR14B80M470	47.0	27.0	2.5	3.0
APR14B12M4R7	4.7	4.5	13.0	18.4
APR14B12M6R1	6.1	5.4	12.5	16.4
APR14B12M7R7	7.7	7.6	10.3	14.8
APR14B12M100	10.0	7.4	9.6	13.1
APR14B12M120	12.0	9.8	9.0	11.8
APR14B12M140	14.0	11.3	8.3	10.9