

Shield Power Inductor

ACKCH Series

Operating Temp. : -40°C~+150°C

FEATURES:

- ⊙ High saturation.
- ⊙ Low loss Realized with low DCR.
- ⊙ High performance.
- ⊙ AEC-Q200 verified.

APPLICATIONS:

- ⊙ LED Lighting
- ⊙ ECU

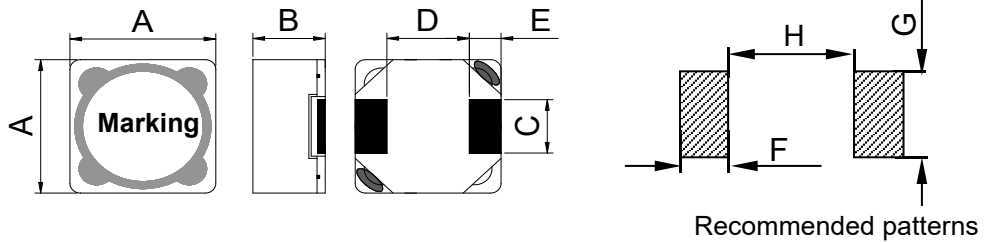
PART NUMBERING SYSTEM:

ACKCH 127B 33uH - M - C04

① ② ③ ④ ⑤

- ①: Automobile Type
- ②: External Dimensions (L*H:12*7mm)
- ③: Inductance
- ④: Inductance Tolerance (M:±20%)
- ⑤: Internal code

SHAPES AND DIMENSIONS: (Unit:mm)



SERIES	A	B	C	D	E	F	G	H
ACKCH74B-C04	7.5±0.3	4.5 Max.	1.5±0.2	3.9±0.3	1.55±0.2	2.5	2.0	2.9
ACKCH125B-C04	12.3±0.3	6.5 Max.	5.0±0.2	7.0±0.3	2.5±0.3	3.6	5.5	5.0
ACKCH127B-C04	12.3±0.3	8.0 Max.	5.0±0.2	7.0±0.3	2.5±0.3	3.6	5.5	5.0
ACKCH129B-C04	12.3±0.3	10.5 Max.	5.0±0.2	7.0±0.3	2.5±0.3	3.6	5.5	5.0
ACKCH125B	12.3±0.3	6.5 Max.	5.0±0.2	7.0±0.3	2.5±0.3	3.6	5.5	5.0
ACKCH127B	12.3±0.3	8.0 Max.	5.0±0.2	7.0±0.3	2.5±0.3	3.6	5.5	5.0

SPECIFICATION TABLE:
ACKCH74B- C04 Series

Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH74B-1.0uH/N-C04	1.0±20%	22.00	10.20	6.00
ACKCH74B-1.5uH/N-C04	1.5±20%	25.00	8.40	5.60
ACKCH74B-2.2uH/N-C04	2.2±20%	26.00	6.10	4.00
ACKCH74B-3.3uH/N-C04	3.3±20%	31.00	5.40	3.80
ACKCH74B-4.7uH/M-C04	4.7±20%	33.00	4.40	3.40
ACKCH74B-6.8uH/M-C04	6.8±20%	50.00	3.70	2.90
ACKCH74B-10uH/M-C04	10±20%	52.00	3.00	2.50
ACKCH74B-15uH/M-C04	15±20%	85.00	2.36	2.00
ACKCH74B-22uH/M-C04	22±20%	120.00	2.00	1.70
ACKCH74B-33uH/M-C04	33±20%	180.00	1.60	1.37
ACKCH74B-47uH/M-C04	47±20%	260.00	1.37	1.15
ACKCH74B-68uH/M-C04	68±20%	340.00	1.15	1.00
ACKCH74B-100uH/M-C04	100±20%	500.00	0.93	0.82

ACKCH125B- C04 Series


Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH125B-4.7uH/M-C04	4.7±20%	18.00	10.00	6.00
ACKCH125B-6.8uH/M-C04	6.8±20%	19.00	9.00	5.80
ACKCH125B-8.2uH/M-C04	8.2±20%	22.00	8.50	5.50
ACKCH125B-10uH/M-C04	10±20%	26.00	8.00	5.30
ACKCH125B-15uH/M-C04	15±20%	36.00	6.50	4.30
ACKCH125B-22uH/M-C04	22±20%	42.00	5.50	3.95
ACKCH125B-33uH/M-C04	33±20%	64.00	4.00	3.20
ACKCH125B-47uH/M-C04	47±20%	90.00	3.15	2.70
ACKCH125B-68uH/M-C04	68±20%	110.00	2.90	2.40
ACKCH125B-100uH/M-C04	100±20%	200.00	2.40	1.80

ACKCH127B- C04 Series
SPECIFICATION TABLE:

Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH127B-4.7uH/M-C04	4.7±20%	20.00	17.50	6.30
ACKCH127B-6.8uH/M-C04	6.8±20%	21.00	15.00	6.25
ACKCH127B-8.2uH/M-C04	8.2±20%	23.00	13.00	6.00
ACKCH127B-10uH/M-C04	10±20%	25.00	12.00	5.80
ACKCH127B-15uH/M-C04	15±20%	35.00	9.60	4.85
ACKCH127B-22uH/M-C04	22±20%	45.00	8.00	4.00
ACKCH127B-33uH/M-C04	33±20%	63.00	6.80	3.40
ACKCH127B-47uH/M-C04	47±20%	86.00	5.10	2.95
ACKCH127B-68uH/M-C04	68±20%	120.00	4.20	2.50
ACKCH127B-100uH/M-C04	100±20%	180.00	3.80	2.00
ACKCH127B-150uH/M-C04	150±20%	285.00	3.10	1.70
ACKCH127B-220uH/M-C04	220±20%	400.00	2.50	1.30
ACKCH127B-330uH/M-C04	330±20%	600.00	2.10	1.10
ACKCH127B-470uH/M-C04	470±20%	875.00	1.72	0.95

ACKCH129B- C04 Series

Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH129B-4.7uH/M-C04	4.7±20%	19.50	18.00	6.35
ACKCH129B-6.8uH/M-C04	6.8±20%	22.00	16.00	6.10
ACKCH129B-8.2uH/M-C04	8.2±20%	23.00	15.00	6.00
ACKCH129B-10uH/M-C04	10±20%	25.00	14.00	5.80
ACKCH129B-15uH/M-C04	15±20%	29.00	11.00	5.00
ACKCH129B-22uH/M-C04	22±20%	40.00	9.00	4.20
ACKCH129B-33uH/M-C04	33±20%	50.00	7.20	3.60
ACKCH129B-47uH/M-C04	47±20%	66.00	6.00	3.20
ACKCH129B-68uH/M-C04	68±20%	110.00	4.80	2.70
ACKCH129B-100uH/M-C04	100±20%	150.00	4.00	2.20
ACKCH129B-150uH/M-C04	150±20%	210.00	3.30	1.80
ACKCH129B-220uH/M-C04	220±20%	280.00	2.80	1.70
ACKCH129B-330uH/M-C04	330±20%	380.00	2.20	1.40

ACKCH125B Series

SPECIFICATION TABLE:

Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH125B-4.7uH/M	4.7±20%	12.60	9.80	7.20
ACKCH125B-6.8uH/M	6.8±20%	16.50	8.80	6.40
ACKCH125B-8.2uH/M	8.2±20%	22.00	7.90	5.50
ACKCH125B-10uH/M	10±20%	26.00	7.20	5.30
ACKCH125B-15uH/M	15±20%	36.00	5.70	4.30
ACKCH125B-18uH/M	18±20%	45.00	5.30	3.85
ACKCH125B-22uH/M	22±20%	48.00	4.75	3.60
ACKCH125B-33uH/M	33±20%	64.00	3.86	3.20
ACKCH125B-47uH/M	47±20%	90.00	3.10	2.70
ACKCH125B-56uH/M	56±20%	122.00	3.00	2.30
ACKCH125B-68uH/M	68±20%	132.00	2.70	2.20
ACKCH125B-82uH/M	82±20%	150.00	2.40	2.05
ACKCH125B-100uH/M	100±20%	200.00	2.20	1.80
ACKCH125B-150uH/M	150±20%	310.00	1.80	1.50
ACKCH125B-220uH/M	220±20%	490.00	1.50	1.20
ACKCH125B-330uH/M	330±20%	550.00	1.20	1.05
ACKCH125B-470uH/M	470±20%	860.00	1.05	0.88

ACKCH127B Series

SPECIFICATION TABLE:

Part No.	Inductance (uH)	DCR (mΩ) Max	Isat Typ (A)	Irms Typ (A)
ACKCH127B-4.7uH/M	4.7±20%	15.00	16.50	8.00
ACKCH127B-6.8uH/M	6.8±20%	17.00	13.30	6.50
ACKCH127B-8.2uH/M	8.2±20%	20.00	12.20	6.30
ACKCH127B-10uH/M	10±20%	22.00	11.20	6.00
ACKCH127B-15uH/M	15±20%	32.00	9.05	4.85
ACKCH127B-22uH/M	22±20%	47.00	7.57	4.00
ACKCH127B-33uH/M	33±20%	72.00	6.20	3.20
ACKCH127B-47uH/M	47±20%	86.00	5.30	2.95
ACKCH127B-68uH/M	68±20%	132.00	4.00	2.40
ACKCH127B-82uH/M	82±20%	186.00	3.50	2.00
ACKCH127B-100uH/M	100±20%	205.00	3.30	1.90
ACKCH127B-150uH/M	150±20%	300.00	3.00	1.60
ACKCH127B-220uH/M	220±20%	450.00	2.43	1.28
ACKCH127B-330uH/M	330±20%	720.00	2.05	1.05
ACKCH127B-470uH/M	470±20%	1020.00	1.68	0.85

- ⊙ All test data is reference to 25°C ambient.
- ⊙ Inductance Tested at 100kHz,0.25V
- ⊙ Isat Typ : DC current (A) that will cause LOA to drop approximately 30% .
- ⊙ Irms Typ: DC current (A) that will cause an approximate ΔT of 40°C;
- ⊙ Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)