AXIAL FIXED INDUCTORS / AL TYPE

FEATURES

- Wide inductance range
- Ideal for auto insertion
- Conformal coated inductors
- Epoxy resin coating makes it high reliability
- Special magnetic core structure contributes to high Q and Self-Resonant Frequencies

APPLICATIONS

- RF coils
- Choke coils
- Peaking coils

ORDERING CODE

AL 0204 – 6R8 □

- Tolerance (J:±5%, K:±10%, M:±20%)
- Inductance
- Dimension
- Product Symbol

SHAPES & DIMENSIONS (UINT: mm)

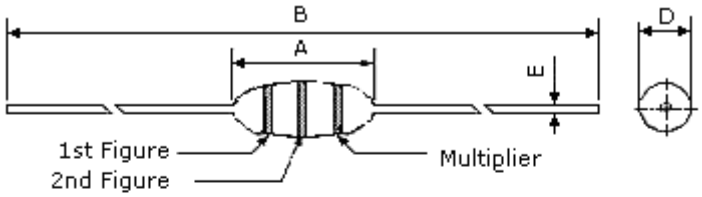


Fig. 1

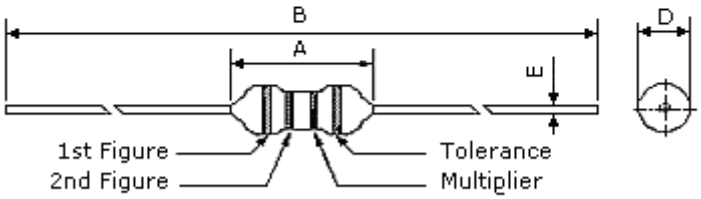


Fig. 2

Part No.	Fig.	A (Max)	B (±2.0)	D (Max)	E (±0.05)
AL 0204	1	4.0	62	3.0	0.55
AL 0307	2	8.0	62	3.0	0.55
AL 0410	2	12.0	62	4.0	0.65
AL 0510	2	14.0	62	5.0	0.65

AXIAL FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0204

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0204-R10 M	0.10	50	25.2	250	0.030	700
AL 0204-R12 M	0.12	55	25.2	230	0.035	660
AL 0204-R15 M	0.15	55	25.2	200	0.040	620
AL 0204-R18 M	0.18	55	25.2	180	0.045	600
AL 0204-R22 M	0.22	55	25.2	160	0.050	400
AL 0204-R27 M	0.27	50	25.2	150	0.065	380
AL 0204-R33 M	0.33	50	25.2	150	0.075	370
AL 0204-R39 M	0.39	50	25.2	150	0.080	350
AL 0204-R47 M	0.47	60	25.2	150	0.085	330
AL 0204-R56 M	0.56	60	25.2	150	0.090	320
AL 0204-R68 M	0.68	50	25.2	120	0.10	310
AL 0204-R82 M	0.82	50	25.2	110	0.15	290
AL 0204-1R0 K	1.00	50	25.2	110	0.22	270
AL 0204-1R2 K	1.20	40	7.96	100	0.30	260
AL 0204-1R5 K	1.50	40	7.96	80	0.35	250
AL 0204-1R8 K	1.80	40	7.96	65	0.45	240
AL 0204-2R2 K	2.20	40	7.96	55	0.55	230
AL 0204-2R7 K	2.70	40	7.96	50	0.60	220
AL 0204-3R3 K	3.30	40	7.96	42	0.65	210
AL 0204-3R9 K	3.90	45	7.96	38	0.85	200
AL 0204-4R7 K	4.70	45	7.96	34	1.00	190
AL 0204-5R6 K	5.60	45	7.96	32	1.15	180
AL 0204-6R8 K	6.80	40	7.96	30	1.20	175
AL 0204-8R2 K	8.20	40	7.96	26	1.25	165
AL 0204-100 K	10	40	7.96	24	1.5	160
AL 0204-120 K	12	50	2.52	22	2.2	150
AL 0204-150 K	15	50	2.52	20	2.5	145
AL 0204-180 K	18	50	2.52	18	2.8	140
AL 0204-220 K	22	50	2.52	17	3.0	130
AL 0204-270 K	27	55	2.52	14	3.5	80
AL 0204-330 K	33	55	2.52	14	3.8	76
AL 0204-390 K	39	50	2.52	13	4.2	76
AL 0204-470 K	47	50	2.52	12	5.8	70
AL 0204-560 K	56	50	2.52	11	6.4	68
AL 0204-680 K	68	50	2.52	10	7.2	64
AL 0204-820 K	82	50	2.52	9.5	8.5	46
AL 0204-101 K	100	50	2.52	8.0	11	44
AL 0204-121 K	120	30	0.796	6.5	19	42
AL 0204-151 K	150	30	0.796	6.0	22	39
AL 0204-181 K	180	30	0.796	5.2	24	37
AL 0204-221 K	220	30	0.796	4.5	28	35
AL 0204-271 K	270	30	0.796	3.5	29	28
AL 0204-331 K	330	30	0.796	3.0	30	26
AL 0204-391 K	390	30	0.796	2.7	32	25
AL 0204-471 K	470	30	0.796	2.6	35	24
AL 0204-561 K	560	30	0.796	2.5	40	23
AL 0204-681 K	680	30	0.796	2.2	42	22
AL 0204-821 K	820	30	0.796	2.1	46	21
AL 0204-102 K	1000	30	0.796	2.0	52	20

AXIAL FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0307

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0307-R10 K	0.10	40	25.2	470	0.08	700
AL 0307-R12 K	0.12	40	25.2	450	0.08	700
AL 0307-R15 K	0.15	40	25.2	430	0.09	700
AL 0307-R18 K	0.18	40	25.2	410	0.10	700
AL 0307-R22 K	0.22	40	25.2	380	0.12	700
AL 0307-R27 K	0.27	40	25.2	360	0.15	680
AL 0307-R33 K	0.33	40	25.2	350	0.16	680
AL 0307-R39 K	0.39	40	25.2	320	0.18	680
AL 0307-R47 K	0.47	40	25.2	300	0.26	650
AL 0307-R56 K	0.56	40	25.2	280	0.38	500
AL 0307-R68 K	0.68	40	25.2	250	0.42	500
AL 0307-R82 K	0.82	40	25.2	200	0.55	450
AL 0307-1R0 K	1.00	65	25.2	180	0.12	700
AL 0307-1R2 K	1.20	50	7.96	165	0.18	740
AL 0307-1R5 K	1.50	50	7.96	150	0.20	700
AL 0307-1R8 K	1.80	70	7.96	125	0.23	655
AL 0307-2R2 K	2.20	50	7.96	85	0.25	630
AL 0307-2R7 K	2.70	60	7.96	95	0.28	595
AL 0307-3R3 K	3.30	60	7.96	75	0.30	575
AL 0307-3R9 K	3.90	60	7.96	65	0.32	555
AL 0307-4R7 K	4.70	50	7.96	50	0.35	530
AL 0307-5R6 K	5.60	50	7.96	40	0.40	500
AL 0307-6R8 K	6.80	50	7.96	30	0.45	470
AL 0307-8R2 K	8.20	50	7.96	28	0.55	425
AL 0307-100 K	10	50	7.96	22	0.72	370
AL 0307-120 K	12	50	2.52	20	0.80	350
AL 0307-150 K	15	50	2.52	16	0.88	335
AL 0307-180 K	18	50	2.52	15	1.00	315
AL 0307-220 K	22	60	2.52	13	1.20	285
AL 0307-270 K	27	60	2.52	11	1.35	270
AL 0307-330 K	33	50	2.52	10	1.50	255
AL 0307-390 K	39	50	2.52	9.50	1.70	240
AL 0307-470 K	47	60	2.52	8.50	2.30	205
AL 0307-560 K	56	60	2.52	7.50	2.60	195
AL 0307-680 K	68	60	2.52	6.50	3.20	185
AL 0307-820 K	82	55	2.52	6.00	3.50	175
AL 0307-101 K	100	60	2.52	5.50	3.80	165
AL 0307-121 K	120	75	0.796	5.40	3.80	160
AL 0307-151 K	150	75	0.796	4.75	4.40	150
AL 0307-181 K	180	75	0.796	4.35	5.00	140
AL 0307-221 K	220	75	0.796	4.00	5.70	130
AL 0307-271 K	270	70	0.796	3.70	6.50	120
AL 0307-331 K	330	70	0.796	3.40	9.50	100
AL 0307-391 K	390	70	0.796	2.80	10.5	95
AL 0307-471 K	470	70	0.796	2.60	12.5	90
AL 0307-561 K	560	70	0.796	2.40	14.5	85
AL 0307-681 K	680	70	0.796	2.00	18.0	75
AL 0307-821 K	820	60	0.796	1.60	23.7	65
AL 0307-102 K	1000	60	0.796	1.15	30.0	60

AXIAL FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0410

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0410-R10 M	0.10	50	25.2	470	0.04	900
AL 0410-R12 M	0.12	50	25.2	450	0.06	900
AL 0410-R15 M	0.15	50	25.2	430	0.07	890
AL 0410-R18 M	0.18	50	25.2	410	0.07	890
AL 0410-R22 M	0.22	50	25.2	380	0.08	880
AL 0410-R27 M	0.27	50	25.2	340	0.09	800
AL 0410-R33 M	0.33	50	25.2	300	0.10	750
AL 0410-R39 M	0.39	50	25.2	280	0.12	680
AL 0410-R47 M	0.47	50	25.2	250	0.16	650
AL 0410-R56 M	0.56	50	25.2	230	0.18	600
AL 0410-R68 M	0.68	50	25.2	210	0.22	550
AL 0410-R82 M	0.82	50	25.2	172	0.24	980
AL 0410-1R0 K	1.00	50	25.2	157	0.09	920
AL 0410-1R2 K	1.20	50	7.96	144	0.10	880
AL 0410-1R5 K	1.50	55	7.96	131	0.23	830
AL 0410-1R8 K	1.80	60	7.96	121	0.25	790
AL 0410-2R2 K	2.20	80	7.96	110	0.28	750
AL 0410-2R7 K	2.70	85	7.96	100	0.30	720
AL 0410-3R3 K	3.30	90	7.96	94	0.34	670
AL 0410-3R9 K	3.90	90	7.96	86	0.37	640
AL 0410-4R7 K	4.70	90	7.96	80	0.39	620
AL 0410-5R6 K	5.60	80	7.96	74	0.43	590
AL 0410-6R8 K	6.80	80	7.96	58	0.48	550
AL 0410-8R2 K	8.20	85	7.96	53	0.52	530
AL 0410-100 K	10	85	7.96	45	0.58	500
AL 0410-120 K	12	75	2.52	30	0.63	480
AL 0410-150 K	15	75	2.52	20	0.72	460
AL 0410-180 K	18	70	2.52	14	0.77	430
AL 0410-220 K	22	65	2.52	9.90	0.84	410
AL 0410-270 K	27	65	2.52	7.60	0.94	390
AL 0410-330 K	33	55	2.52	6.30	1.03	370
AL 0410-390 K	39	55	2.52	6.30	1.12	350
AL 0410-470 K	47	45	2.52	6.30	1.22	340
AL 0410-560 K	56	45	2.52	6.20	1.34	320
AL 0410-680 K	68	40	2.52	5.70	1.47	305
AL 0410-820 K	82	35	2.52	5.30	1.62	290
AL 0410-101 K	100	30	2.52	4.80	1.80	275
AL 0410-121 K	120	70	0.796	3.80	3.70	185
AL 0410-151 K	150	80	0.796	3.50	4.20	175
AL 0410-181 K	180	80	0.796	3.30	4.60	165
AL 0410-221 K	220	70	0.796	3.00	5.10	155
AL 0410-271 K	270	70	0.796	2.80	5.80	145
AL 0410-331 K	330	65	0.796	2.60	6.40	137
AL 0410-391 K	390	65	0.796	2.40	7.00	133
AL 0410-471 K	470	60	0.796	2.25	7.70	126
AL 0410-561 K	560	60	0.796	2.10	8.50	120
AL 0410-681 K	680	55	0.796	1.95	9.40	113
AL 0410-821 K	820	55	0.796	1.85	12.0	100
AL 0410-102 K	1000	50	0.796	1.40	17.0	100

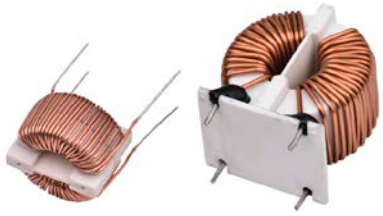
AXIAL FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0510

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (KHz)	Q Test Freq. (KHz)	DCR (Ω) Max	IDC (mA) Max
AL 0510-102 K	1000	80	1	252	8	360
AL 0510-122 K	1200	80	1	252	8	340
AL 0510-152 K	1500	80	1	252	9	320
AL 0510-182 K	1800	80	1	252	10	300
AL 0510-222 K	2200	80	1	252	11	280
AL 0510-272 K	2700	80	1	252	14	250
AL 0510-332 K	3300	80	1	252	18	230
AL 0510-392 K	3900	80	1	252	22	200
AL 0510-472 K	4700	80	1	252	26	190
AL 0510-562 K	5600	60	1	252	30	175
AL 0510-682 K	6800	60	1	252	34	150
AL 0510-822 K	8200	60	1	252	48	130
AL 0510-103 K	10000	60	1	252	62	120
AL 0510-123 K	12000	60	1	252	74	108
AL 0510-153 K	15000	60	1	252	88	100
AL 0510-183 K	18000	40	1	79.6	102	85
AL 0510-223 K	22000	40	1	79.6	150	75
AL 0510-273 K	27000	40	1	79.6	210	70
AL 0510-303 K	30000	40	1	79.6	240	65
AL 0510-333 K	33000	40	1	79.6	250	63
AL 0510-393 K	39000	40	1	79.6	270	60

COMMON MODE CHOKE COILS / LFV TYPE

FEATURES



- Wide inductance range
- Easy PC Board Mounting
- High levels of safety and reliability
- Available as vertically or horizontally mounted

APPLICATIONS

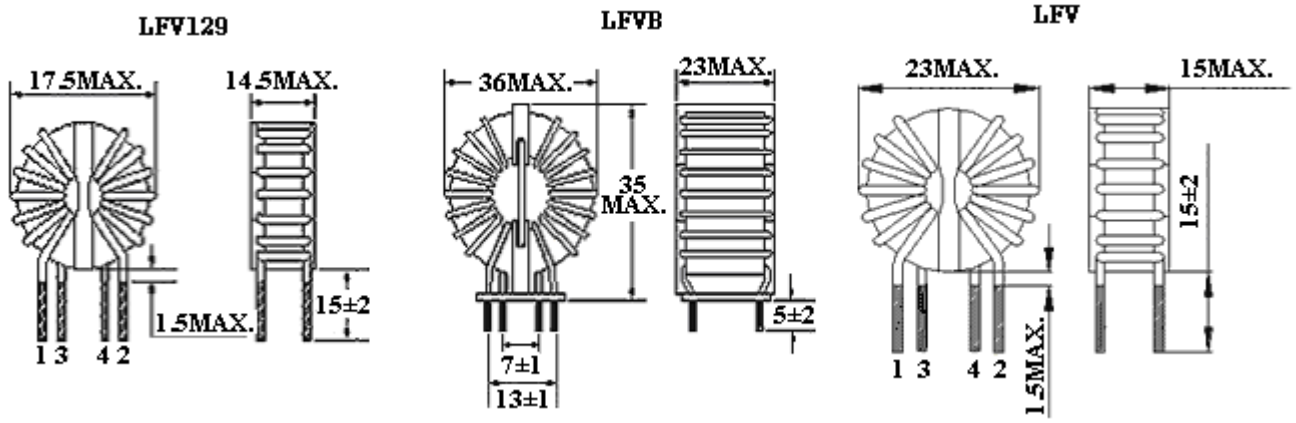
- TV, VCR
- NC machines
- Peripheral units
- Computer systems
- Measuring instruments
- Switching power sources

ORDERING CODE

LFV 129 - 601 1A

- 1A — Rated Current
- 601 — Inductance
- 129 — 129 Bobbin
- LFV — Product Symbol

SHAPES & DIMENSIONS (UNIT: mm)



COMMON MODE CHOKE COILS / LFV TYPE

ELECTRICAL CHARACTERISTICS

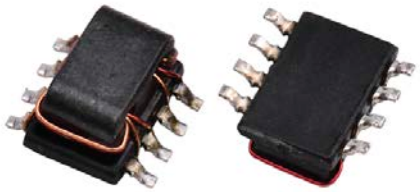
Part No.	Inductance (mH) (MIN)	DC Resistance (mΩ) MAX	Rated Current (A)
LFV129	0.6-5	30-150	1-3
LFVB	0.2-5	5-70	3-15
LFV	1.0-10	80-260	1-2

***DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS**

DUAL WIRE WOUND TYPE COMMON MODE CHOKE COILS / SP TYPE

FEATURES

- The series has high common mode impedance in small size.
- The series is effective for common mode noise suppression in digital equipment which radiation is caused from cables.
- Suitable for reflow soldering.



APPLICATIONS

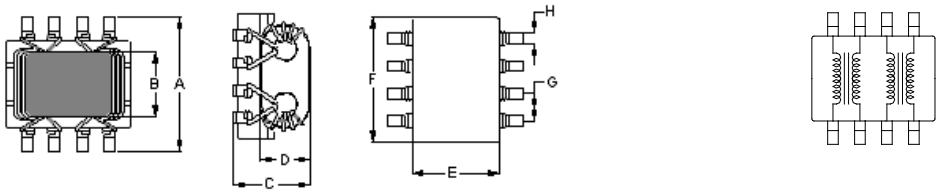
- The series is effective in high frequency noise suppression and suitable for radiation noise in signal cables. The dual winding type common mode choke coil structure enables noise suppression without degrading the signal. They can be as a common mode filter for USB2.0 & IEEE1394.

ORDERING CODE

SP - 6560 – 700 □

- Tolerance
- Impedance
- Dimension (in mm)
- Product Symbol

SHAPES



DIMENSIONS (UNIT: mm)

A (Max)	B (Ref.)	C (Max)	D (Ref.)	E (Ref.)	F (Max)	H	G
6.7	3.0	3.5	2.0	4.0	6.2	0.50 ± 0.1	1.27 ± 0.1

ELECTRICAL CHARACTERISTICS FOR SP 6560

Part No.	Common Mode Impedance at 100MHz (Ω)	DC Resistance (Ω) MAX	Rated Current (mA)
SP6560-900	90 ± 25%	0.10	500
SP6560-121	120 ± 25%	0.12	500
SP6560-221	220 ± 25%	0.15	500
SP6560-301	300 ± 25%	0.16	500
SP6560-501	500 ± 25%	0.20	500

EMI COMMON-MODE LINE FILTERS / BCH TYPE

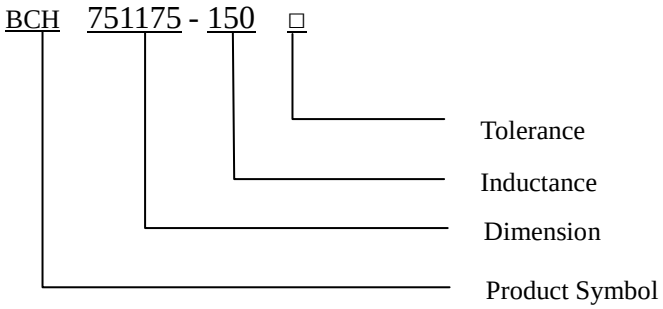
FEATURES

- High impedance and excellent frequency characteristic.
- Low magnetic flux leakage.
- Self electromagnetic shielding.

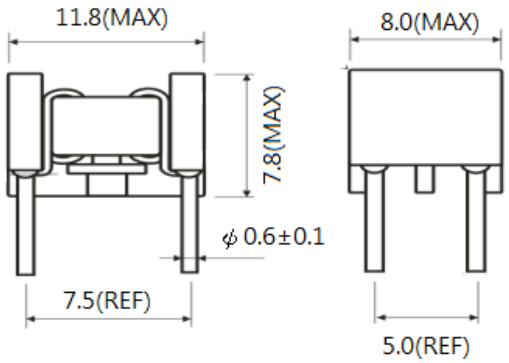
APPLICATIONS

- EMI countermeasures at signal lines of personal computers, microcomputers, peripheral devices, Countermeasures against common-mode noise at composite at video signals.

ORDERING CODE



SHAPES & DIMENSIONS (UNIT: mm)



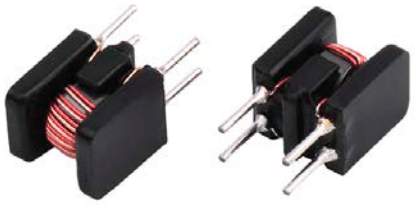
SPECIFICATIONS

Part No.	Inductance (L1=L2) (μH)(REF)	Test Freq.	DC Resistance (L1=L2) (mΩ)(MAX)	Rated Current (A)(MAX)
BCH 751175-6R75	6.75	100KHz/0.25V	19	2
BCH 751175-7R7	7.70	100KHz/0.25V	19	2
BCH 751175-150	15.0	1KHz/0.25V	20	2
BCH 751175-180	18.0	1KHz/0.25V	35	2

EMI COMMON-MODE LINE FILTERS / BCV TYPE

FEATURES

- Low cost.
- Common mode for DC power lines.
- Single layer winding for minimum capacitance.
- Meets UL 94V-0 flammability standard.



APPLICATIONS

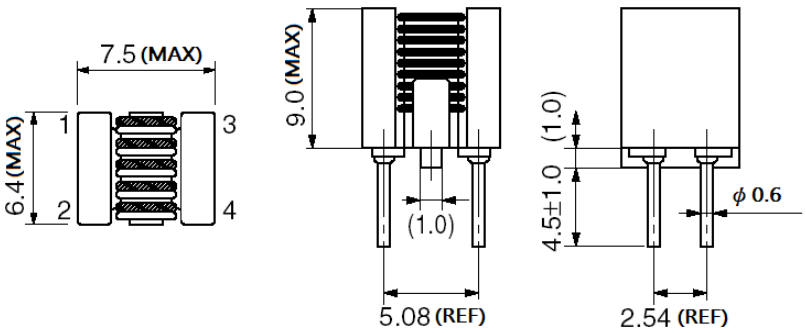
EMI countermeasures at signal lines of personal computers, microcomputers, peripheral devices, Communication equipment, Countermeasures against common-mode noise at composite at video signals.

ORDERING CODE

BCV 649075 –150 □

- Tolerance
- Inductance
- Dimension
- Product Symbol

SHAPES & DIMENSIONS (UNIT: mm)



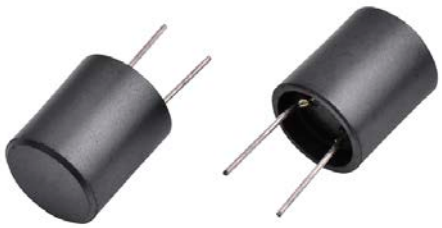
ELECTRICAL CHARACTERISTICS FOR BCV 649075

Part No.	Inductance (L1=L2) (μH)(REF)	Test Freq.	DC Resistance (L1=L2) (mΩ)(MAX)	Rated Current (mA)
BCV649075-150	15	1KHz/0.25V	45	500
BCV649075-400	40	1KHz/0.25V	45	500
BCV649075-600	60	1KHz/0.25V	55	500
BCV649075-800	80	1KHz/0.25V	55	500

FILTER CHOKE / SRC TYPE

FEATURES

- Low distortion.
- The magnetic shield in a metal case is aviable.



APPLICATIONS

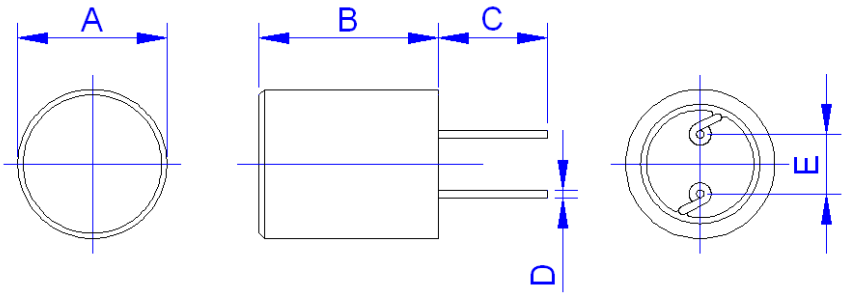
- Magnetically shielded construction.
- Ideally Used in Printers, LCD TV, DVD, Printer, Copy Machine, Main board of the compounding machines, etc as Power Supplies's Inductors or DC-DC Converter inductors.

ORDERING CODE

SRC 1013 – 4R3 □

- Tolerance (K:±10%, M:±20%)
- Inductance
- Dimension (AxB)
- Product Symbol

SHAPES



DIMENSIONS UNIT: mm (inch)

Part No.	A (MAX)	B	C (REF)	D	E (REF)
SRC1013	11.0	13.5	5.0	0.7 ± 0.1	5.0
SRC1317	13.5	17.5	4.5	0.7 ± 0.1	5.0
SRC1616	16.0	16.5	5.0	0.8 ± 0.1	7.5
SRC1619	16.0	19.2	5.0	1.0 ± 0.1	7.5

FILTER CHOKE / SRC TYPE

ELECTRICAL CHARACTERISTICS FOR SRC1013

Part No.	Inductance (uH)	DC Resistance (Ω) Max	Rated Current (A) Max
SRC1013-4R3M	4.3 ± 20%	0.021	4.60
SRC1013-6R8M	6.8 ± 20%	0.024	3.60
SRC1013-100M	10 ±20%	0.030	3.46
SRC1013-150M	15 ± 20%	0.038	2.57
SRC1013-220M	22 ± 20%	0.045	2.21
SRC1013-330M	33 ± 20%	0.057	1.83
SRC1013-470M	47 ± 20%	0.090	1.60
SRC1013-680M	68 ± 20%	0.150	1.36
SRC1013-101M	100 ± 20%	0.210	1.10
SRC1013-151M	150 ± 20%	0.242	0.86
SRC1013-221M	220 ± 20%	0.360	0.74
SRC1013-331M	330 ± 20%	0.430	0.57
SRC1013-471M	470 ± 20%	0.810	0.48
SRC1013-681M	680 ± 20%	0.952	0.38
SRC1013-102M	1000 ± 20%	1.600	0.39

ELECTRICAL CHARACTERISTICS FOR SRC1317

Part No.	Inductance (uH)	DC Resistance (Ω) Max	Rated Current (A) Max
SRC1317-330M	33 ± 20%	0.058	4.80
SRC1317-470M	47 ± 20%	0.069	4.30
SRC1317-680M	68 ± 20%	0.101	3.30
SRC1317-820M	82 ± 20%	0.110	3.10
SRC1317-101M	100 ± 20%	0.125	2.80
SRC1317-151L	150 ± 15%	0.195	2.40
SRC1317-221L	220 ± 15%	0.278	1.90
SRC1317-331L	330 ± 15%	0.360	1.60
SRC1317-471L	470 ± 15%	0.530	1.35
SRC1317-681L	680 ± 15%	0.780	1.12
SRC1317-821L	820 ± 15%	0.950	1.02
SRC1317-102L	1000 ± 15%	1.180	0.90
SRC1317-152L	1500 ± 15%	1.400	0.72
SRC1317-222L	2200 ± 15%	2.280	0.62
SRC1317-332L	3300 ± 15%	3.310	0.51
SRC1317-472L	4700 ± 15%	5.020	0.43

FILTER CHOKE / SRC TYPE

ELECTRICAL CHARACTERISTICS FOR SRC1616

Part No.	Inductance (uH)	DC Resistance (Ω) Max	Rated Current (A) Max
SRC1616-4R7M	4.7 ± 20%	0.0670	12.6
SRC1616-6R8M	6.8 ± 20%	0.0935	9.8
SRC1616-100M	10 ± 20%	0.0105	9.3
SRC1616-150M	15 ± 20%	0.0145	7.1
SRC1616-220M	22 ± 20%	0.0170	6.2
SRC1616-330M	33 ± 20%	0.0270	5.0
SRC1616-470M	47 ± 20%	0.0370	4.2
SRC1616-680M	68 ± 20%	0.0560	3.3
SRC1616-820M	82 ± 20%	0.0645	2.9
SRC1616-101K	100 ± 10%	0.0680	2.7
SRC1616-151K	150 ± 10%	0.0910	2.3
SRC1616-221K	220 ± 10%	0.1550	1.8
SRC1616-331K	330 ± 10%	0.2400	1.5
SRC1616-471K	470 ± 10%	0.2800	1.2
SRC1616-681K	680 ± 10%	0.5150	1.0
SRC1616-821K	820 ± 10%	0.5750	0.96
SRC1616-102K	1000 ± 10%	0.6650	0.85

ELECTRICAL CHARACTERISTICS FOR SRC1619

Part No.	Inductance (uH)	DC Resistance (Ω) Max	Rated Current (A) Max
SRC1619-100M	10 ± 20%	0.020	7.0
SRC1619-150M	15 ± 20%	0.022	6.0
SRC1619-180M	18 ± 20%	0.025	5.2
SRC1619-220K	22 ± 10%	0.028	4.9
SRC1619-330K	33 ± 10%	0.033	3.9
SRC1619-470K	47 ± 10%	0.038	3.4
SRC1619-680K	68 ± 10%	0.046	2.90
SRC1619-101K	100 ± 10%	0.053	2.50
SRC1619-151K	150 ± 10%	0.077	2.00
SRC1619-221K	220 ± 10%	0.140	1.60
SRC1619-331K	330 ± 10%	0.270	1.30
SRC1619-471K	470 ± 10%	0.460	1.10
SRC1619-681K	680 ± 10%	0.560	0.90
SRC1619-102K	1000 ± 10%	0.690	0.75

Notes:
1) Open Circuit Inductance Test Parameters: 1.0kHz, 0.25Vrms, 0.0Adc, Test Equipment : HP4284A or WK3260B LCR Meter.
2) DCR limits @ 20°C.Test Equipment: CH502BC.

HIGH CURRENT CHOKE / LRC TYPE

FEATURES

The use of high saturation flux density material makes these coils ideal for use in switching regulated power supply application and wherever high current choke values in a small physical size are needed.

APPLICATIONS

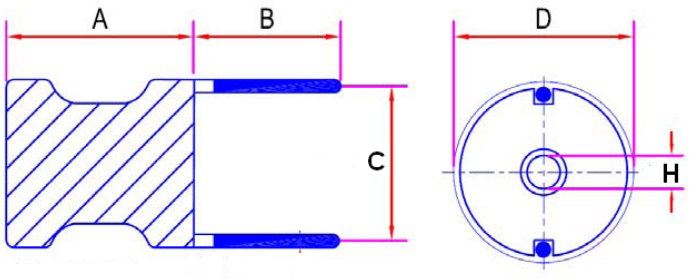
- ◆ Switching Regulators
- ◆ SCR and Triac Controls
- ◆ RFI Suppression
- ◆Power Amplifiers
- ◆Speaker Crossover Networks
- ◆Filters

ORDERING CODE

LRC 1420 U - 1R5 □ □□□

- Rated Current
- Tolerance (K:±10%, M:±20%)
- Inductance
- UL TUBE
- Dimension
- Product Symbol

SHAPES



DIMENSIONS UNIT: mm

Part No.	A (MAX)	B	C (REF)	D (MAX)	H (MIN)
LRC1420U	21.5	15 ± 3.0	12.0	16.5	3.0
LRC1820U	21.5	15 ± 3.0	15.0	21.0	3.0
LRC2620U	21.5	15 ± 3.0	22.0	28.0	5.0
LRC3525U	28.0	15 ± 3.0	30.0	40.0	3.6

CORE MASTER ENTERPRISE CO., LTD.
http://www.coremaster.com.tw

HIGH CURRENT CHOKE / LRC TYPE

SPECIFICATIONS

Part No.	Inductance (µH) At 1KHz	Rated Current (A)	DC Resistance (Ω) Max	Part No.	Inductance (µH) At 1KHz	Rated Current (A)	DC Resistance (Ω) Max
LRC1420U-1R0M	1.0	28	0.003	**LRC1820U-1R0M**	1.0	60	0.003
LRC1420U-1R2M	1.2	26	0.003	**LRC1820U-1R2M**	1.2	54	0.003
LRC1420U-1R5M	1.5	23	0.004	**LRC1820U-1R5M**	1.5	48	0.003
LRC1420U-1R8M	1.8	21	0.004	**LRC1820U-1R8M**	1.8	44	0.003
LRC1420U-2R2M	2.2	19	0.005	**LRC1820U-2R2M**	2.2	40	0.004
LRC1420U-2R7M	2.7	17	0.005	**LRC1820U-2R7M**	2.7	36	0.005
LRC1420U-3R3M	3.3	15	0.005	**LRC1820U-3R3M**	3.3	33	0.005
LRC1420U-3R9M	3.9	14	0.006	**LRC1820U-3R9M**	3.9	30	0.005
LRC1420U-4R7M	4.7	13	0.007	**LRC1820U-4R7M**	4.7	28	0.005
LRC1420U-5R6M	5.6	12	0.007	**LRC1820U-5R6M**	5.6	25	0.006
LRC1420U-6R8M	6.8	11	0.008	**LRC1820U-6R8M**	6.8	23	0.007
LRC1420U-8R2M	8.2	10	0.009	**LRC1820U-8R2M**	8.2	21	0.007
LRC1420U-100K	10	9.0	0.010	**LRC1820U-100K**	10	19	0.009
LRC1420U-120K	12	8.5	0.011	**LRC1820U-120K**	12	17	0.009
LRC1420U-150K	15	7.5	0.015	**LRC1820U-150K**	15	15	0.013
LRC1420U-180K	18	6.8	0.016	**LRC1820U-180K**	18	14	0.018
LRC1420U-220K	22	6.0	0.025	**LRC1820U-220K**	22	13	0.019
LRC1420U-270K	27	5.5	0.030	**LRC1820U-270K**	27	11	0.026
LRC1420U-330K	33	5.0	0.040	**LRC1820U-330K**	33	10	0.029
LRC1420U-390K	39	4.5	0.046	**LRC1820U-390K**	39	9.5	0.030
LRC1420U-470K	47	4.0	0.062	**LRC1820U-470K**	47	8.8	0.035
LRC1420U-560K	56	3.7	0.069	**LRC1820U-560K**	56	8.0	0.039
LRC1420U-680K	68	3.4	0.077	**LRC1820U-680K**	68	7.2	0.053
LRC1420U-820K	82	3.1	0.083	**LRC1820U-820K**	82	6.6	0.060
LRC1420U-101K	100	2.8	0.095	**LRC1820U-101K**	100	6.0	0.080
LRC1420U-121K	120	2.5	0.127	**LRC1820U-121K**	120	5.5	0.090
LRC1420U-151K	150	2.3	0.181	**LRC1820U-151K**	150	4.8	0.098
LRC1420U-181K	180	2.1	0.217	**LRC1820U-181K**	180	4.4	0.110
LRC1420U-221K	220	1.9	0.240	**LRC1820U-221K**	220	4.0	0.150
LRC1420U-271K	270	1.7	0.300	**LRC1820U-271K**	270	3.6	0.213
LRC1420U-331K	330	1.5	0.336	**LRC1820U-331K**	330	3.3	0.305
LRC1420U-391K	390	1.4	0.460	**LRC1820U-391K**	390	3.0	0.320
LRC1420U-471K	470	1.3	0.636	**LRC1820U-471K**	470	2.7	0.355
LRC1420U-561K	560	1.2	0.696	**LRC1820U-561K**	560	2.5	0.388

HIGH CURRENT CHOKE / LRC TYPE

SPECIFICATIONS

Part No.	Inductance (μH) At 1KHz	Rated Current (A)	DC Resistance (Ω) Max	Part No.	Inductance (μH) At 1KHz	Rated Current (A)	DC Resistance (Ω) Max
LRC2620U-3R9M	3.9	32.0	0.003	**LRC3525U-3R9M**	3.9	95	0.003
LRC2620U-4R7M	4.7	29.0	0.003	**LRC3525U-4R7M**	4.7	95	0.003
LRC2620U-5R6M	5.6	26.0	0.003	**LRC3525U-5R6M**	5.6	79	0.004
LRC2620U-6R8M	6.8	24.0	0.004	**LRC3525U-6R8M**	6.8	79	0.004
LRC2620U-8R2M	8.2	22.0	0.004	**LRC3525U-8R2M**	8.2	69	0.004
LRC2620U-100K	10	20.0	0.006	**LRC3525U-100K**	10	61	0.005
LRC2620U-120K	12	18.0	0.008	**LRC3525U-120K**	12	55	0.005
LRC2620U-150K	15	16.0	0.009	**LRC3525U-150K**	15	49	0.006
LRC2620U-180K	18	15.0	0.010	**LRC3525U-180K**	18	41	0.008
LRC2620U-220K	22	13.5	0.011	**LRC3525U-220K**	22	38	0.009
LRC2620U-270K	27	12.0	0.012	**LRC3525U-270K**	27	36	0.010
LRC2620U-330K	33	11.0	0.017	**LRC3525U-330K**	33	31	0.011
LRC2620U-390K	39	10.0	0.022	**LRC3525U-390K**	39	28	0.012
LRC2620U-470K	47	9.2	0.024	**LRC3525U-470K**	47	27	0.018
LRC2620U-560K	56	8.5	0.026	**LRC3525U-560K**	56	26	0.019
LRC2620U-680K	68	7.6	0.029	**LRC3525U -680K**	68	25	0.021
LRC2620U-820K	82	7.0	0.032	**LRC3525U -820K**	82	23	0.023
LRC2620U-101K	100	6.5	0.034	**LRC3525U -101K**	100	20	0.025
LRC2620U-121K	120	5.8	0.046	**LRC3525U -121K**	120	18	0.028
LRC2620U-151K	150	5.2	0.064	**LRC3525U -151K**	150	17	0.040
LRC2620U-181K	180	4.7	0.072	**LRC3525U -181K**	180	15	0.045
LRC2620U-221K	220	4.3	0.080	**LRC3525U -221K**	220	13	0.050
LRC2620U-271K	270	3.9	0.110	**LRC3525U -271K**	270	12	0.056
LRC2620U-331K	330	3.5	0.122	**LRC3525U -331K**	330	11	0.074
LRC2620U-391K	390	3.2	0.169	**LRC3525U -391K**	390	10	0.082
LRC2620U-471K	470	2.9	0.187	**LRC3525U -471K**	470	9.2	0.114
LRC2620U-561K	560	2.7	0.205	**LRC3525U -561K**	560	8.3	0.125
LRC2620U-681K	680	2.4	0.256	**LRC3525U -681K**	680	7.6	0.139
LRC2620U-821K	820	2.2	0.288	**LRC3525U -821K**	820	6.8	0.154
LRC2620U-102K	1000	2.0	0.426	**LRC3525U -102K**	1000	6.2	0.216
LRC2620U-122K	1200	1.8	0.462	**LRC3525U -122K**	1200	5.7	0.232
LRC2620U-152K	1500	1.6	0.518	**LRC3525U -152K**	1500	5.1	0.324
LRC2620U-182K	1800	1.5	0.705	**LRC3525U -182K**	1800	4.6	0.360
LRC2620U-222K	2200	1.3	1.020	**LRC3525U -222K**	2200	4.2	0.494
LRC2620U-272K	2700	1.2	1.140	**LRC3525U -272K**	2700	3.8	0.555
LRC2620U-332K	3300	1.1	1.270	**LRC3525U -332K**	3300	3.4	0.773
LRC2620U-392K	3900	1.0	1.670	**LRC3525U -392K**	3900	3.1	0.845
LRC2620U-472K	4700	0.9	1.860	**LRC3525U -472K**	4700	2.9	1.140

HIGH CURRENT COMMON MODE CHOKE COILS / CM TYPE

FEATURES

- High common mode impedance at high frequency effects excellent noise suppression performance.
- The common mode choke coils structure enables noise suppression without degrading the signal.
- Suitable for and reflow soldering

APPLICATIONS

- EMI countermeasures at signal lines of personal computers, microcomputers, peripheral devices, Countermeasures against common-mode noise at composite at video signals.

ORDERING CODE

CM □□□□□□ – 601

- 601 — Impedance
- □□□□□□ — Dimension (in mm)
- CM — Product Symbol

SHAPES

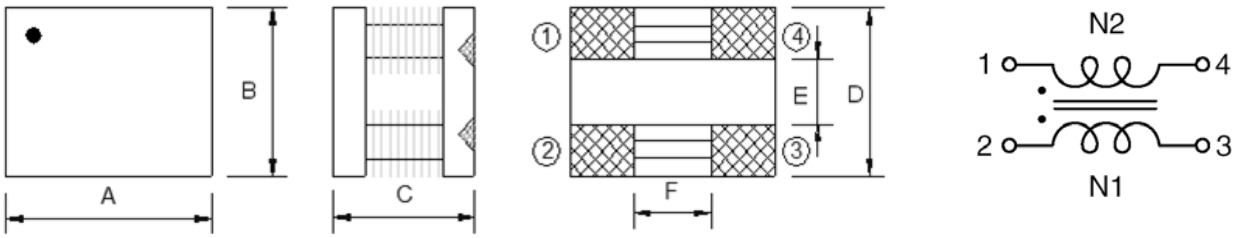


Fig.1

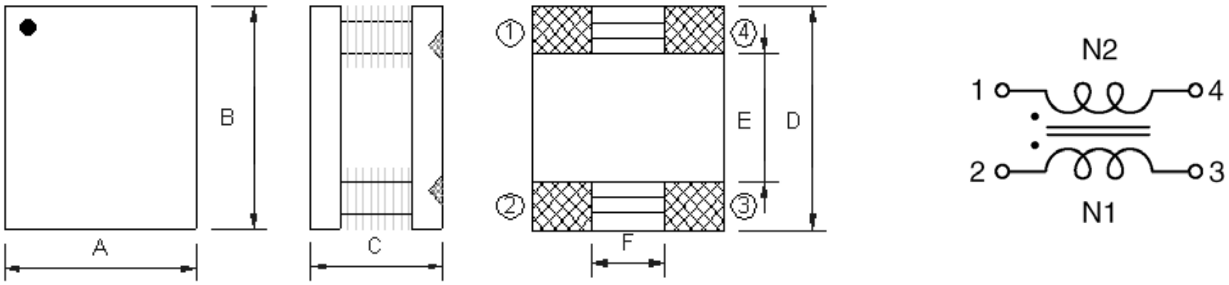


Fig.2

HIGH CURRENT COMMON MODE CHOKE COILS / CM TYPE

DIMENSIONS (UNIT: mm)

Part No.	Fig.	A	B	C	D (Ref.)	E (Ref.)	F (Ref.)
CM465516	1	5.7 ± 0.3	4.65 ± 0.3	1.8 ± 0.3	4.6	2.2	1.8
CM508505	1	8.5 ± 0.3	5.00 ± 0.3	5.0 ± 0.3	5.0	1.8	4.0
CM750603	2	6.0 ± 0.3	7.50 ± 0.3	3.2 ± 0.3	7.5	2.5	1.8
CM100805	2	8.0 ± 0.3	10.0 ± 0.3	5.2 ± 0.3	10.0	4.0	2.5
CM121006	2	10.0 ± 0.5	12.0 ± 0.5	6.2 ± 0.3	12.0	5.0	3.0

ELECTRICAL CHARACTERISTICS FOR CM465516

Part No.	Rated Current (mA)	Impedance (Ω) (Ref.)	Test Frequency	DC Resistance (mΩ)(Max)
CM 465516-251	2000	250	100MHz	40
CM 465516-601	500	600	100MHz	70

ELECTRICAL CHARACTERISTICS FOR CM508505

Part No.	Rated Current (mA)	Impedance (Ω) (Ref.)	Test Frequency	DC Resistance (mΩ)(Max)
CM 508505-701	2500	700	100MHz	35
CM 508505-202	2000	2000	100MHz	75

ELECTRICAL CHARACTERISTICS FOR CM750603

Part No.	Rated Current (mA)	Impedance (Ω) (Min)	Test Frequency	DC Resistance (mΩ)(Max)
CM 750603-601	2000	600	100MHz	45

ELECTRICAL CHARACTERISTICS FOR CM100805

Part No.	Rated Current (mA)	Impedance (Ω) (Ref.)	Test Frequency	DC Resistance (mΩ)(Max)
CM 100805-601	4000	600	100MHz	30

ELECTRICAL CHARACTERISTICS FOR CM121006

Part No.	Rated Current (mA)	Impedance (Ω) (Ref.)	Test Frequency	DC Resistance (mΩ)(Max)
CM 121006-201	6000	200	100MHz	20
CM 121006-102	5000	1000	100MHz	25
CM 121006-202	5000	2000	100MHz	30

Note:
1, Inductance is measured by LCR-meter 4284A (HP) or equivalent.
2, DC Resistance is measured by HP4338B Milliohms Meter or equivalent.

HIGH CURRENT FILTER CHOKES / HC TYPE

FEATURES

- Coated with varnish
- Use ferrite cores
- Low cost design
- General purpose inductors
- High saturation current

APPLICATIONS

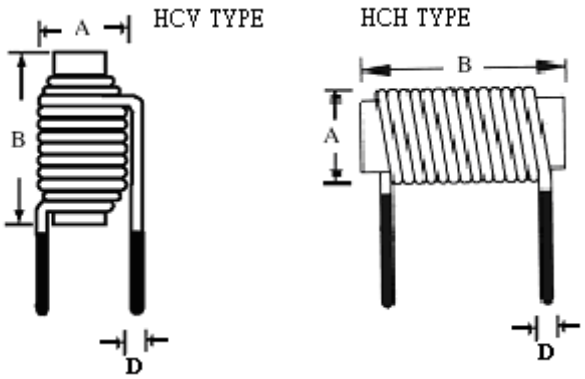
- Output chokes
- SCR and Triac circuits
- Power supplies and amplifier
- Noise filters for switching regulators
- Other filters

ORDERING CODE

HCV/H 0520 – 1R0 □

- Tolerance (K:±10%, M: ±20%)
- Inductance
- Dimension (AxB)
- Product Symbol (V: Vertical, H: Horizontal)

SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A (Max)	B (Max)	D
HC 0415	5.5	16.0	0.40 ± 0.05
HC 0520	7.0	21.0	0.65 ± 0.05
HC 0630	9.5	31.0	1.20 ± 0.05

***DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS**

LINE FILTERS / LFU TYPE

FEATURES

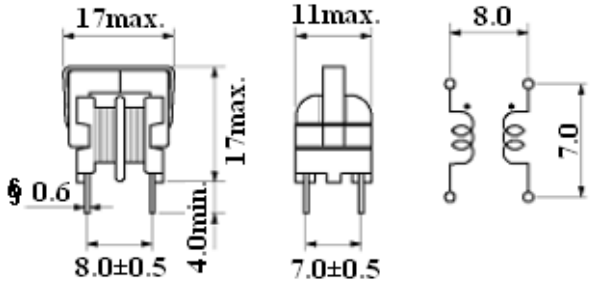
- High impedance and excellent frequence characteristic.
  Low magnetic flux leakage. gineers with its impedance characteristics.

APPLICATIONS

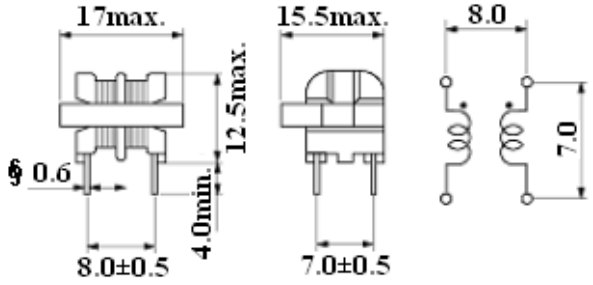
- Power switching, TV game, Monitor , Car recharger , etc. Design as Customers Requested Specifications.

SHAPES AND DIMENSIONS (UNIT: mm)

LFU09V SHAPE



LFU09H SHAPE



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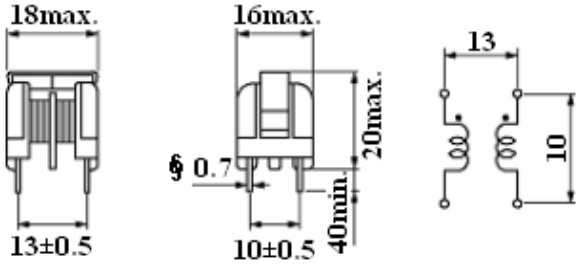
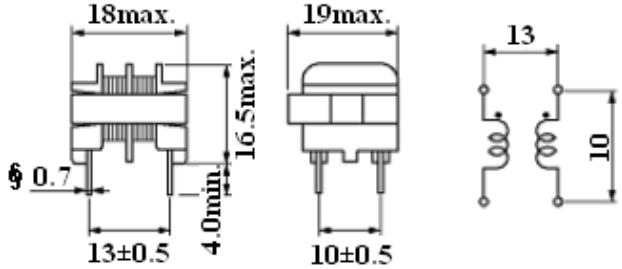
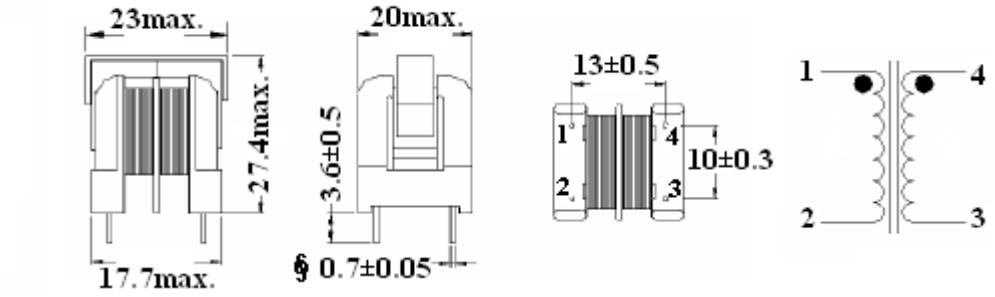


LFU10H SHAPE



LFU16V SHAPE



LINE FILTERS / LFU TYPE

SPECIFICATIONS FOR LFU09

Part No.	Rated Voltage (AC/DC)	DC Resistance (Ω) Max	Rated Current (A)	Inductance (mH) Min	Temperature Rise Max (℃)
LFU09-501	250V	0.3	1.0	0.5	40
LFU09-102	250V	0.6	0.7	1.0	40
LFU09-202	250V	1.0	0.5	2.0	40
LFU09-502	250V	3.0	0.3	5.0	40
LFU09-802	250V	6.0	0.2	8.0	40
LFU09-103	250V	8.0	0.1	10.0	40

SPECIFICATIONS FOR LFU10

Part No.	Rated Voltage (AC/DC)	DC Resistance (Ω) Max	Rated Current (A)	Inductance (mH) Min	Temperature Rise (Max) (℃)
LFU10-601	250V	0.15	2.0	0.6	40
LFU10-102	250V	0.4	1.0	1.0	40
LFU10-202	250V	0.5	1.0	2.0	40
LFU10-302	250V	0.5	1.0	3.0	40
LFU10-402	250V	1.0	0.7	4.0	40
LFU10-502	250V	1.0	0.5	5.0	40
LFU10-103	250V	3.0	0.3	10.0	40

SPECIFICATIONS FOR LFU16

Part No.	Rated Voltage (AC/DC)	DC Resistance (Ω) Max	Rated Current (A)	Inductance (mH) Min	Temperature Rise (Max) (℃)	Temperature Range (℃)
LFU16-152	250V	0.15	1.5	1.5	40	-25 ~ 120
LFU16-252	250V	0.25	1.2	2.5	40	-25 ~ 120
LFU16-352	250V	0.30	1.2	3.5	40	-25 ~ 120
LFU16-402	250V	0.40	1.0	4.0	40	-25 ~ 120
LFU16-602	250V	0.50	1.0	6.0	40	-25 ~ 120
LFU16-802	250V	0.80	0.8	8.0	40	-25 ~ 120
LFU16-103	250V	1.20	0.6	10	40	-25 ~ 120
LFU16-203	250V	1.60	0.5	20	40	-25 ~ 120
LFU16-303	250V	2.80	0.4	30	40	-25 ~ 120

PEAKING COILS / RC TYPE

FEATURES

- High rated current for high current circuits.Designed by special lead wire to prevent open circuit failure.
- Low cost with rugged reliability and performance fixed inductor.

APPLICATIONS

- Excellent as DC-DC converter boost or buck inductors.Also used for filtering applications.

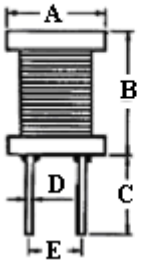
ORDERING CODE

RC 0608 U - 151 □

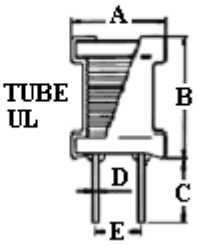
- Tolerance (K:±10%, M:±20%)
- Inductance
- U: UL Tube
- Dimension (AxB)
- Product Symbol

SHAPES

(WITHOUT TUBE)



(WITH UL TUBE)



DIMENSIONS UNIT: mm (WITH ULTUBE)

Part No.	A (Max)	B (Max)	C (Min)	D (Typ)	E (Ref.)
RC 0406	5.5	8.0	10	0.50	2.6
RC 0608	7.5	10.0	10	0.60	2.6
RC 0810	10.5	12.5	10	0.65	5.0
RC 0912	11.5	14.0	10	0.80	5.0
RC 1012	11.5	14.0	10	0.80	6.0
RC 1016	12.0	18.0	10	0.80	7.0

***DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS**

SMD COMMON MODE TOROIDS COILS / SFT TYPE

FEATURES

- Reduced components height
- High rated currents
- Suitable for reflow soldering
- RoHS-compatible

APPLICATIONS

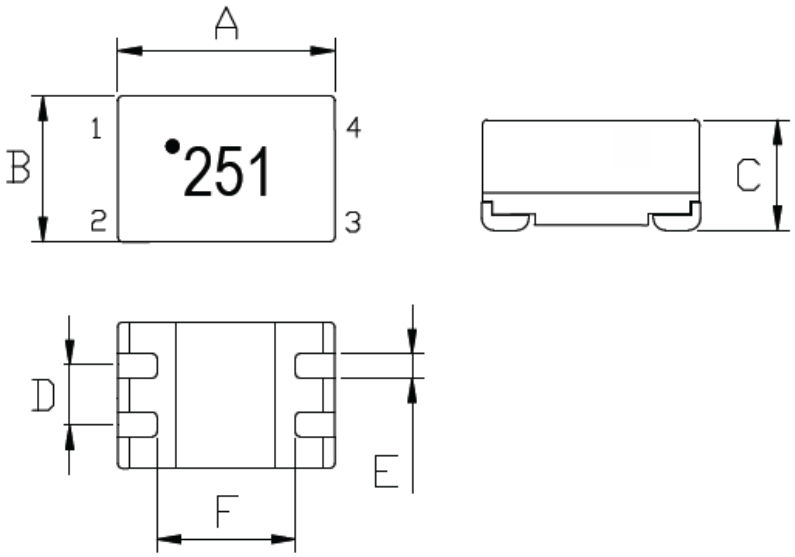
- Automotive applications
- Industrial applications
- Telecom applications

ORDERING CODE

SFT □□□□- 3R3

- 3R3 — Inductance
- □□□□ — Dimension
- SFT — Product Symbol

SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A	B	C	D	E	F
SFT0905	9.2 ± 0.3	6.0 ± 0.3	5.0 ± 0.3	2.54 ± 0.3	1.0 (REF)	5.7 (REF)

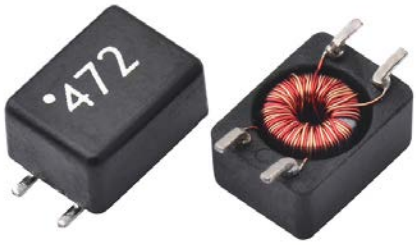
SMD COMMON MODE TOROIDS COILS / SFT TYPE

ELECTRICAL CHARACTERISTICS FOR SFT0905

Part No.	Inductance L1=L2 (uH)	Test Frequency (KHz)	RDC RDC1=RDC2 (mΩ) MAX	IDC (A) MAX
SFT0905-100□	10 +50% / -30%	1KHz / 0.1V	80	1.6
SFT0905-250□	25 ± 30%	1KHz / 0.1V	120	1.3
SFT0905-400□	40 ± 30%	1KHz / 0.1V	120	1.3
SFT0905-510□	51 ± 30%	1KHz / 0.1V	120	1.3
SFT0905-251□	250 ± 50%	100KHz / 0.05V	130	1.2
SFT0905-501□	500 ± 50%	100KHz / 0.05V	150	1.0
SFT0905-102□	1000 ± 50%	100KHz / 0.05V	310	0.8
SFT0905-202□	2000 ± 50%	100KHz / 0.05V	420	0.6
SFT0905-472□	4700 ± 50%	100KHz / 0.05V	900	0.4
SFT0905-652□	6500 ± 50%	100KHz / 0.05V	1050	0.3

SMD COMMON MODE TOROIDS COILS / SHT TYPE

FEATURES



- Reduced components height
- High rated currents
- Suitable for reflow soldering
- RoHS-compatible

APPLICATIONS

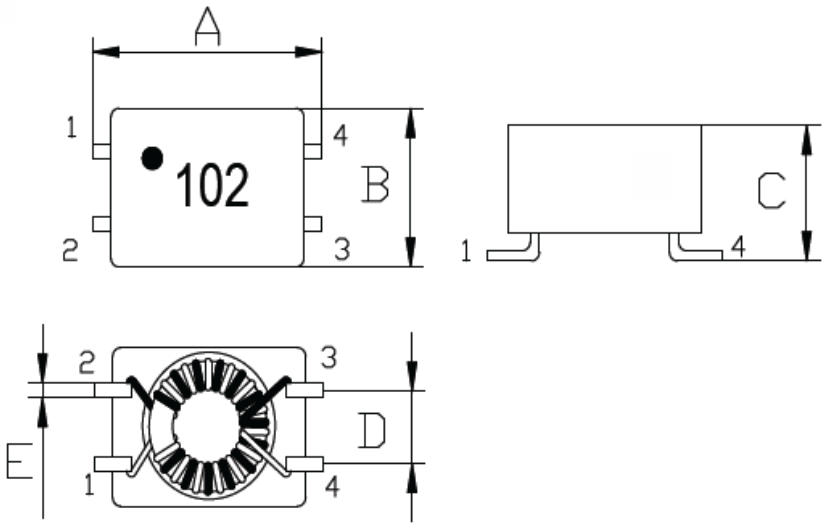
- Automotive applications
- Industrial applications
- Telecom applications

ORDERING CODE

SHT □□□□- 102

- 102 — Inductance
- □□□□ — Dimension
- SHT — Product Symbol

SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A	B	C	D	E
SHT0905	9.0 ± 0.5	5.5 ± 0.4	5.2 (MAX)	2.54 ± 0.3	0.5 (REF)

SMD COMMON MODE TOROIDS COILS / SHT TYPE

ELECTRICAL CHARACTERISTICS FOR SHT0905

Part No.	Inductance L1=L2 (uH)	Test Frequency (KHz)	RDC RDC1=RDC2 (mΩ) MAX	IDC (A) MAX
SHT0905-110□	11 +50% / -30%	100KHz / 0.1V	120	1.0
SHT0905-250□	25 +50% / -30%	100KHz / 0.1V	120	0.9
SHT0905-510□	51 +50% / -30%	100KHz / 0.1V	195	0.8
SHT0905-101□	100 +50% / -30%	100KHz / 0.1V	250	0.7
SHT0905-471□	470 +50% / -30%	100KHz / 0.1V	300	0.7
SHT0905-102□	1000 +50% / -30%	100KHz / 0.1V	300	0.7
SHT0905-222□	2200 +50% / -30%	100KHz / 0.1V	400	0.5
SHT0905-472□	4700 +50% / -30%	100KHz / 0.1V	700	0.4

SMD SPRING AIR COILS / AC TYPE

FEATURES

- Tinned leads assure reliable soldering
- Jacket with a high temperature material which assures mechanical stability and small tolerance
- Forms a flat tope making them suitable for automatic placement and reflow

APPLICATIONS

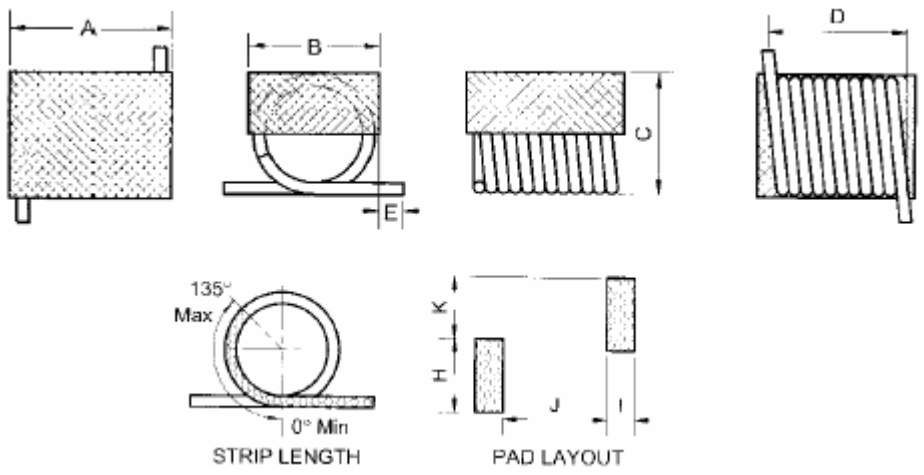
- Microwave
- TVs and Audios
- Band pass equipment
- Satellite communication systems

ORDERING CODE

AC 0403 - 2N5 □

- Tolerance (J:±5%, K:±10%)
- Inductance
- Dimension (AxB)
- Product Symbol

SHAPES



SMD SPRING AIR COILS / AC TYPE

DIMENSIONS (UNIT: mm)

Part No.	A (Ref.)	B (Ref.)	C (Ref.)	D	E	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
AC 0403	3.68	3.05	3.18	2.92±0.25	0.58±0.38	3.30	1.27	1.65	2.79
AC 0504	4.95	3.81	4.20	4.32±0.39	1.53±0.39	5.16	1.48	2.85	2.62
AC 0703	6.86	3.05	3.18	5.84±0.25	0.58±0.38	3.30	1.27	4.70	2.79
AC 1006	10.55	6.35	5.97	7.98±0.51	1.27±0.39	4.70	2.04	5.95	2.42

SPECIFICATIONS

Part No.	Inductance (nH)	Test Freq. (MHz)	DC Resistance (mΩ) Max	Rated Current (A) Max
AC 0403-2N5 □	2.5	150	1.1	4.0
AC 0403-5N0 □	5.0	150	1.8	4.0
AC 0403-8N0 □	8.0	150	2.6	4.0
AC 0403-12N5□	12.5	150	3.4	4.0
AC 0403-18N5□	18.5	150	3.9	4.0
AC 0504-22N □	22.0	150	4.2	3.0
AC 0504-27N □	27.0	150	4.0	3.5
AC 0504-33N □	33.0	150	4.8	3.0
AC 0504-39N □	39.0	150	4.4	3.0
AC 0504-47N □	47.0	150	5.6	3.0
AC 0504-56N □	56.0	150	6.2	3.0
AC 0504-68N □	68.0	150	8.2	2.5
AC 0504-82N □	82.0	150	9.4	2.5
AC 0504-R10 □	100.0	150	12.3	1.7
AC 0504-R12 □	120.0	150	17.3	1.5
AC 0703-17N5□	17.5	150	4.5	4.0
AC 0703-22N □	22.0	150	5.2	4.0
AC 0703-28N □	28.0	150	6.0	4.0
AC 0703-35N5□	35.5	150	6.8	4.0
AC 0703-43N □	43.0	150	7.9	4.0
AC 1006-90N □	90.0	50	15.0	3.5
AC 1006-R169□	169.0	50	25.0	3.0
AC 1006-R206□	206.0	50	30.0	3.0
AC 1006-R222□	222.0	50	35.0	3.0
AC 1006-R246□	246.0	50	35.0	3.0
AC 1006-R307□	307.0	50	35.0	3.0
AC 1006-R380□	380.0	50	50.0	2.5
AC 1006-R422□	422.0	50	60.0	2.5
AC 1006-R491□	491.0	50	65.0	2.0
AC 1006-R538□	538.0	50	90.0	2.0

WOUND TOROIDS COILS / TC TYPE

APPLICATIONS

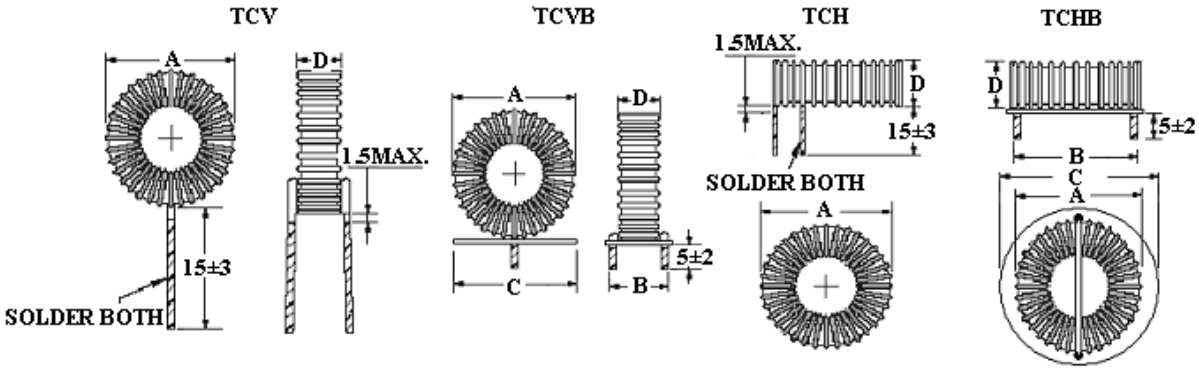
- Other filters
- Power supplies
- Out put chokes
- EMI/RFI chokes
- Switching Circuits
- SCR and Triac Controls

ORDERING CODE

TCV/H □ 101 M - 2A - 5026

- 5026 — Core Size
- 2A — Current in Amps
- M — Tolerance (M:±20%)
- 101 — Inductance
- □ — B:BASE
- TCV/H — Product Symbol (V: Vertical , H: Horizontal)

SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A (Max)	B (Max)	C (Max)	D (Max)
TCV	7.5 ~ 42.5			5.5 ~ 21.5
TCVB	12.0 ~ 39.0	10 ~ 20	11 ~ 30	7.0 ~ 18.5
TCH	7.5 ~ 42.5			5.5 ~ 21.5
TCHB	12.0 ~ 39.0	9 ~ 36	13 ~ 42	7.0 ~ 18.5

***DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS**

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