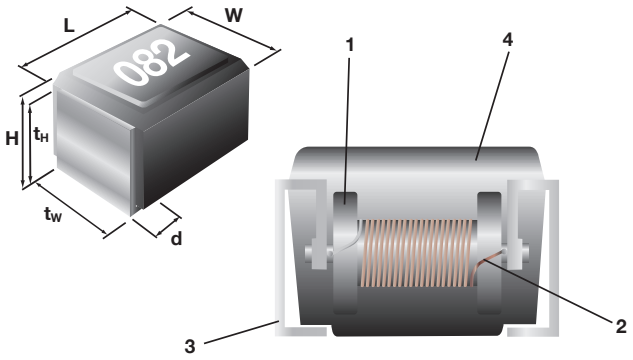
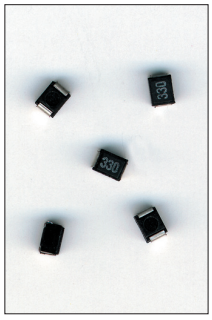
FERRITE CORE
WIREWOUND MOLDED CHIP INDUCTOR
LFC32 KL32 [1)]



STRUCTURE

1 Ferrite core
2 Winding wire
3 Terminal (copper base)
4 Molded resin



IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LFC32 / KL32	Black	Silver 3 digit Inductance Code

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

LFC32 (KL32)[1)]	T	TE	R56	J
PRODUCT CODE	TERMINATION SURFACE MATERIAL T: Sn	TAPING* TE, BK *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: µH)	INDUCTANCE TOLERANCE J: (±5%) K: (±10%) M: (±20%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

[1)] Type indication KL32 or LFC32 depends on measuring equipment only

FEATURES

- Excellent heat resistance and mechanical strength due to molded resin
- Wide inductance range due to five different ferrite materials
- Surface mount style with a footprint of „1210"
- Wide range of applications (video cameras, digital still cameras, car navigation systems, computer peripherals, mobile communications, car electronics, etc.)
- Operating temperature range: –40° C … +100° C
- Suitable for reflow, wave and iron soldering
- Lab Kit available

DIMENSIONS (mm)

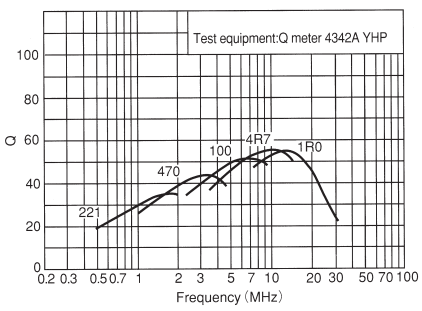
PRODUCT CODE	L	W	H	t_W	t_H	$d_{(nom)}$
LFC32	3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	1.7 ± 0.1	1.9 ± 0.1	0.5

INDUCTANCE MEASURING EQUIPMENT

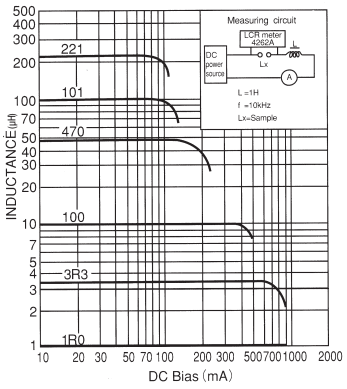
PRODUCT CODE	INDUCTANCE RANGE	EQUIPMENT
LFC 32	0.005 µH … 0.10 µH	Impedance analyser HP 4191 A
	0.12 µH … 330 µH	Q meter HP 4342 A
KL 32	0.005 µH … 8.2 µH	Impedance analyser HP 4191 A
	10 µH … 330 µH	Impedance analyser HP 4192 A

CHARACTERISTICS

Q vs. FREQUENCY



DC BIAS



FERRITE CORE
WIREWOUND MOLDED
CHIP INDUCTOR
LFC32 KL32 [1)]

RATING

TYPE [1)]	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	MEASURING FREQUENCY
LFC32 or KL32 T TE 005 M	0.005 µH	M (±20%)	11	2700 MHz	0.12 Ω		
LFC32 or KL32 T TE 010 ☐	0.010 µH		15	2500 MHz	0.13 Ω		
LFC32 or KL32 T TE 012 ☐	0.012 µH		17	2300 MHz	0.14 Ω		
LFC32 or KL32 T TE 015 ☐	0.015 µH	K (±10%)	19	2100 MHz	0.16 Ω		
LFC32 or KL32 T TE 018 ☐	0.018 µH	M (±20%)	21	1900 MHz	0.18 Ω		
LFC32 or KL32 T TE 022 ☐	0.022 µH		23	1700 MHz	0.20 Ω		
LFC32 or KL32 T TE 027 ☐	0.027 µH			1500 MHz	0.22 Ω		100 MHz
LFC32 or KL32 T TE 033 ☐	0.033 µH		25	1400 MHz	0.24 Ω		
LFC32 or KL32 T TE 039 ☐	0.039 µH			1300 MHz	0.27 Ω		
LFC32 or KL32 T TE 047 ☐	0.047 µH		26	1200 MHz	0.30 Ω		
LFC32 or KL32 T TE 056 ☐	0.056 µH			1100 MHz	0.33 Ω		
LFC32 or KL32 T TE 068 ☐	0.068 µH		27	1000 MHz	0.36 Ω		
LFC32 or KL32 T TE 082 ☐	0.082 µH			900 MHz	0.40 Ω	450 mA	
LFC32 or KL32 T TE R10 ☐	0.10 µH		28	700 MHz	0.44 Ω		
LFC32 or KL32 T TE R12 ☐	0.12 µH			500 MHz	0.22 Ω		
LFC32 or KL32 T TE R15 ☐	0.15 µH			450 MHz	0.25 Ω		
LFC32 or KL32 T TE R18 ☐	0.18 µH			400 MHz	0.28 Ω		
LFC32 or KL32 T TE R22 ☐	0.22 µH			350 MHz	0.32 Ω		
LFC32 or KL32 T TE R27 ☐	0.27 µH			320 MHz	0.36 Ω		
LFC32 or KL32 T TE R33 ☐	0.33 µH			300 MHz	0.40 Ω		25.2 MHz
LFC32 or KL32 T TE R39 ☐	0.39 µH			250 MHz	0.45 Ω		
LFC32 or KL32 T TE R47 ☐	0.47 µH			220 MHz	0.50 Ω		
LFC32 or KL32 T TE R56 ☐	0.56 µH			180 MHz	0.55 Ω		
LFC32 or KL32 T TE R68 ☐	0.68 µH			160 MHz	0.60 Ω		
LFC32 or KL32 T TE R82 ☐	0.82 µH			140 MHz	0.65 Ω		
LFC32 or KL32 T TE 1R0 ☐	1.0 µH			120 MHz	0.70 Ω	400 mA	
LFC32 or KL32 T TE 1R2 ☐	1.2 µH			100 MHz	0.75 Ω	390 mA	
LFC32 or KL32 T TE 1R5 ☐	1.5 µH			85 MHz	0.85 Ω	370 mA	
LFC32 or KL32 T TE 1R8 ☐	1.8 µH			80 MHz	0.90 Ω	350 mA	
LFC32 or KL32 T TE 2R2 ☐	2.2 µH	J (±5%)	30	75 MHz	1.0 Ω	320 mA	
LFC32 or KL32 T TE 2R7 ☐	2.7 µH	K (±10%)		70 MHz	1.1 Ω	290 mA	
LFC32 or KL32 T TE 3R3 ☐	3.3 µH	M (±20%)		60 MHz	1.2 Ω	260 mA	7.96 MHz
LFC32 or KL32 T TE 3R9 ☐	3.9 µH			55 MHz	1.3 Ω	250 mA	
LFC32 or KL32 T TE 4R7 ☐	4.7 µH			50 MHz	1.5 Ω	220 mA	
LFC32 or KL32 T TE 5R6 ☐	5.6 µH			47 MHz	1.6 Ω	200 mA	
LFC32 or KL32 T TE 6R8 ☐	6.8 µH			43 MHz	1.8 Ω	180 mA	
LFC32 or KL32 T TE 8R2 ☐	8.2 µH			40 MHz	2.0 Ω	170 mA	
LFC32 or KL32 T TE 100 ☐	10 µH			36 MHz	2.1 Ω	150 mA	
LFC32 or KL32 T TE 120 ☐	12 µH			33 MHz	2.5 Ω	140 mA	
LFC32 or KL32 T TE 150 ☐	15 µH			30 MHz	2.8 Ω	130 mA	
LFC32 or KL32 T TE 180 ☐	18 µH			27 MHz	3.3 Ω	120 mA	
LFC32 or KL32 T TE 220 ☐	22 µH			25 MHz	3.7 Ω	110 mA	
LFC32 or KL32 T TE 270 ☐	27 µH			20 MHz	5.0 Ω	80 mA	
LFC32 or KL32 T TE 330 ☐	33 µH			17 MHz	5.6 Ω	70 mA	2.52 MHz
LFC32 or KL32 T TE 390 ☐	39 µH			16 MHz	6.4 Ω	65 mA	
LFC32 or KL32 T TE 470 ☐	47 µH			15 MHz	7.0 Ω	60 mA	
LFC32 or KL32 T TE 560 ☐	56 µH			13 MHz	8.0 Ω	55 mA	
LFC32 or KL32 T TE 680 ☐	68 µH			12 MHz	9.0 Ω	50 mA	
LFC32 or KL32 T TE 820 ☐	82 µH			11 MHz	10 Ω	45 mA	
LFC32 or KL32 T TE 101 ☐	100 µH			10 MHz		40 mA	
LFC32 or KL32 T TE 121 ☐	120 µH				11 Ω	70 mA	
LFC32 or KL32 T TE 151 ☐	150 µH			8 MHz	15 Ω	65 mA	
LFC32 or KL32 T TE 181 ☐	180 µH		20		17 Ω	60 mA	0.796 MHz
LFC32 or KL32 T TE 221 ☐	220 µH			7 MHz	21 Ω		
LFC32 or KL32 T TE 271 ☐	270 µH			6 MHz	28 Ω	50 mA	
LFC32 or KL32 T TE 331 ☐	330 µH			5 MHz	34 Ω		

☐ Enter the code for inductance tolerance (J, K, M)

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