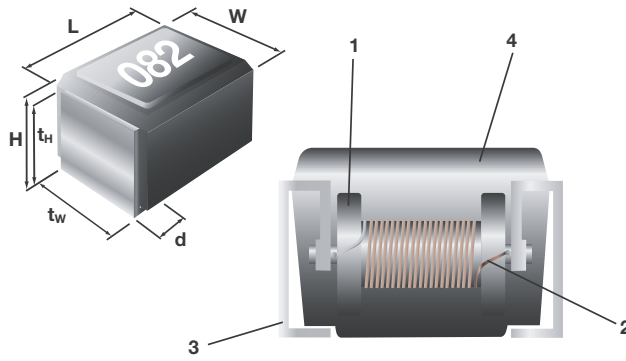


**FERRITE CORE
WIREWOUND MOLDED
CHIP INDUCTOR
LFC32 KL32¹⁾**



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

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	LFC32 (KL32)¹⁾	J	TE	R56	
New Part No.	LFC32 (KL32)¹⁾	L	TE	R56	J
PRODUCT CODE	TERMINATION SURFACE MATERIAL L: Sn/Pb C: SnCu	INDUCTANCE TOLERANCE	TAPING*	NOMINAL INDUCTANCE 3 digits (Unit: μH)	INDUCTANCE TOLERANCE

*Please see "PACKAGING"

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

FEATURES

- Excellent heat resistance and mechanical strength due to molded resin (UL 94 V-0)
- Wide inductance range due to five different ferrite materials
- Surface mount style with a footprint of „1210“
- Wide range of applications (video cameras, mobile communications, car electronics, computer systems etc.)
- Operating temperature range: $-40^{\circ}\text{C} \dots +100^{\circ}\text{C}$
- Suitable for reflow, wave and iron soldering
- Lab Kit available

DIMENSIONS (mm)

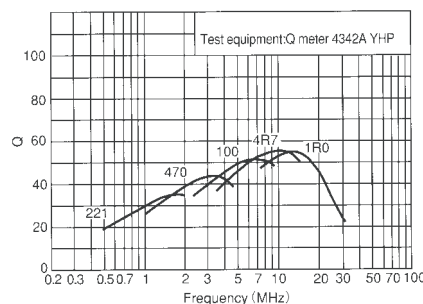
PRODUCT CODE	L	W	H	t _w	t _H	d(nom)
LFC32	3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	1.7 ± 0.1	1.9 ± 0.1	0.5

INDUCTANCE MEASURING EQUIPMENT

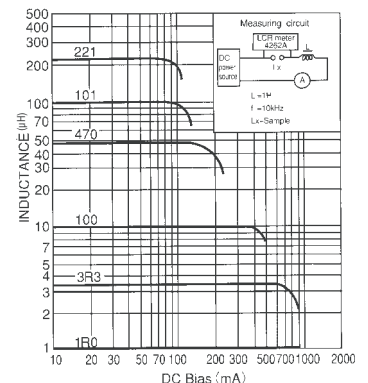
PRODUCT CODE	INDUCTANCE RANGE	EQUIPMENT
LFC 32	0.005 μH ... 0.10 μH 0.12 μH ... 330 μH	Impedance analyser HP 4191 A Q meter HP 4342 A
KL 32	0.005 μH ... 8.2 μH 10 μH ... 330 μH	Impedance analyser HP 4191 A Impedance analyser HP 4192 A

CHARACTERISTICS

Q vs. FREQUENCY



DC BIAS



FERRITE CORE WIREWOUND MOLDED CHIP INDUCTOR LFC32 KL32¹⁾

RATING

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

¹⁾ Type Indication KL32 or LFC32 depends on measuring equipment only