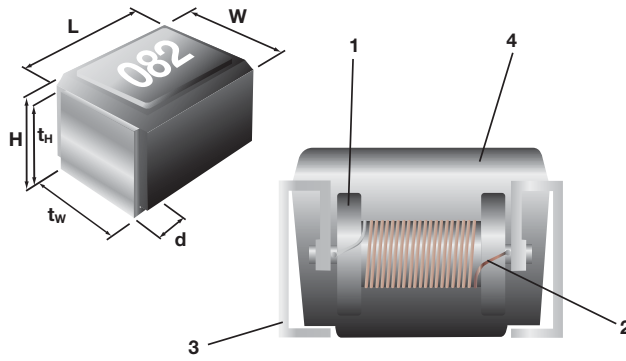
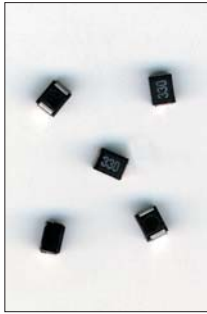


**FERRITE CORE  
WIREWOUND MOLDED  
CHIP INDUCTOR  
LFC32 KL32<sup>1)</sup>**



**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 RoHS requirements

**TYPE DESIGNATION (HOW TO ORDER)**

Old Part No.	<b>LFC32 (KL32)<sup>1)</sup></b>	<b>J</b>	<b>TE</b>	<b>R56</b>	
New Part No. (Pb-free)	<b>LFC32 (KL32)<sup>1)</sup></b>	<b>C</b>	<b>TE</b>	<b>R56</b>	<b>J</b>
PRODUCT CODE	TERMINATION SURFACE MATERIAL C: SnCu L: Sn/Pb	INDUCTANCE TOLERANCE	TAPING* TE, BK <small>*Please see "PACKAGING"</small>	NOMINAL INDUCTANCE 3 digits (Unit: $\mu$ H)	INDUCTANCE TOLERANCE J: $\pm$ 5% K: $\pm$ 10% M: $\pm$ 20%

<sup>1)</sup> 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, mobile communications, car electronics, computer systems etc.)
- Operating temperature range:  $-40^{\circ}$  C ...  $+100^{\circ}$  C
- Suitable for reflow, wave and iron soldering
- Lab Kit available

**DIMENSIONS (mm)**

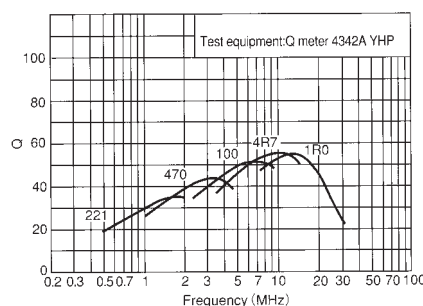
PRODUCT CODE	L	W	H	t <sub>w</sub>	t <sub>H</sub>	d(nom)
LFC32	3.2 $\pm$ 0.2	2.5 $\pm$ 0.2	2.2 $\pm$ 0.2	1.7 $\pm$ 0.1	1.9 $\pm$ 0.1	0.5

**INDUCTANCE MEASURING EQUIPMENT**

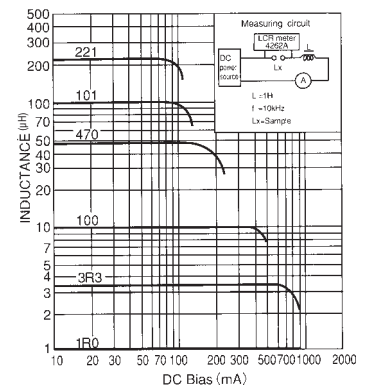
PRODUCT CODE	INDUCTANCE RANGE	EQUIPMENT
LFC 32	0.005 $\mu$ H ... 0.10 $\mu$ H 0.12 $\mu$ H ... 330 $\mu$ H	Impedance analyser HP 4191 A Q meter HP 4342 A
KL 32	0.005 $\mu$ H ... 8.2 $\mu$ H 10 $\mu$ H ... 330 $\mu$ H	Impedance analyser HP 4191 A Impedance analyser HP 4192 A

**CHARACTERISTICS**

**Q vs. FREQUENCY**



**DC BIAS**



Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

## FERRITE CORE WIREWOUND MOLDED CHIP INDUCTOR LFC32 KL32<sup>1)</sup>

### 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 M	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	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	700 MHz	0.44 Ω			
LFC32 □ TE R12 □	0.12 μH		J (±5%) K (±10%) M (±20%)	30	500 MHz		0.22 Ω	400 mA 390 mA 370 mA 350 mA 320 mA 290 mA 260 mA 250 mA 220 mA 200 mA 180 mA 170 mA 150 mA 140 mA 130 mA 120 mA 110 mA 80 mA 70 mA 65 mA 60 mA 55 mA 50 mA 45 mA 40 mA 70 mA 65 mA 60 mA 60 mA
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	30		120 MHz	0.70 Ω			
LFC32 □ TE 1R2 □	1.2 μH	30		100 MHz	0.75 Ω			
LFC32 □ TE 1R5 □	1.5 μH	30		85 MHz	0.85 Ω			
LFC32 □ TE 1R8 □	1.8 μH	30	80 MHz	0.90 Ω				
LFC32 □ TE 2R2 □	2.2 μH	30	75 MHz	1.0 Ω				
LFC32 □ TE 2R7 □	2.7 μH	30	70 MHz	1.1 Ω				
LFC32 □ TE 3R3 □	3.3 μH	30	60 MHz	1.2 Ω				
LFC32 □ TE 3R9 □	3.9 μH	30	55 MHz	1.3 Ω				
LFC32 □ TE 4R7 □	4.7 μH	30	50 MHz	1.5 Ω				
LFC32 □ TE 5R6 □	5.6 μH	30	47 MHz	1.6 Ω				
LFC32 □ TE 6R8 □	6.8 μH	30	43 MHz	1.8 Ω				
LFC32 □ TE 8R2 □	8.2 μH	30	40 MHz	2.0 Ω				
LFC32 □ TE 100 □	10 μH	30	36 MHz	2.1 Ω				
LFC32 □ TE 120 □	12 μH	30	33 MHz	2.5 Ω				
LFC32 □ TE 150 □	15 μH	30	30 MHz	2.8 Ω				
LFC32 □ TE 180 □	18 μH	30	27 MHz	3.3 Ω				
LFC32 □ TE 220 □	22 μH	30	25 MHz	3.7 Ω				
LFC32 □ TE 270 □	27 μH	30	20 MHz	5.0 Ω				
LFC32 □ TE 330 □	33 μH	30	17 MHz	5.6 Ω				
LFC32 □ TE 390 □	39 μH	30	16 MHz	6.4 Ω				
LFC32 □ TE 470 □	47 μH	30	15 MHz	7.0 Ω				
LFC32 □ TE 560 □	56 μH	30	13 MHz	8.0 Ω				
LFC32 □ TE 680 □	68 μH	30	12 MHz	9.0 Ω				
LFC32 □ TE 820 □	82 μH	30	11 MHz	10 Ω				
LFC32 □ TE 101 □	100 μH	30	10 MHz	11 Ω				
LFC32 □ TE 121 □	120 μH	30	10 MHz	11 Ω				
LFC32 □ TE 151 □	150 μH	30	8 MHz	15 Ω				
LFC32 □ TE 181 □	180 μH	30	8 MHz	15 Ω				
LFC32 □ TE 221 □	220 μH	30	7 MHz	17 Ω				
LFC32 □ TE 271 □	270 μH	30	6 MHz	21 Ω				
LFC32 □ TE 331 □	330 μH	30	5 MHz	28 Ω				
			20	5 MHz	34 Ω	50 mA	0.796 MHz	

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INDUCTORS

□ Enter the code for termination surface material (C, L) □ Enter the code for inductance tolerance (J, K, M)

<sup>1)</sup> Type Indication KL32 or LFC32 depends on measuring equipment only