



# ■ SURFACE MOUNT INDUCTORS

## MULTILAYER CHIP INDUCTORS

**LK Series:** General purpose multilayer ferrite chip inductors for applications up to 100 MHz. The internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating cross talk, thus permitting higher mounting densities.

Part Number	Case Size	L (μH)	Q min	Self-resonant Frequency (MHz)	DC Resistance (Ω) max	Rated Current (mA) max	Dimensions in./(mm)		
							L	W	t
LK1608	0603	0.047-33	10-35 (@100 MHz)	9-260min	0.3-2.95	1-50	.063±.006 (1.6±0.15)	.031±.006 (0.8±0.15)	.031±.006 (0.8±0.15)
LK2125	0805	0.047-33	15-50 (@100 MHz)	13-320min	0.2-1.25	5-300	.079 <sup>+0.012</sup> <sub>-.004</sub> (2.0 <sup>+0.3</sup> <sub>-0.1</sub> )	.049±.008 (1.25±0.2)	.033±.008 (0.85±0.2)
LK3216	1206	0.047-33	20-50 (@100 MHz)	13-320min	0.15-1.05	5-300	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.024±.008 (0.6±0.2)
								.043±.012 (1.1±0.3)	

**LK Type**

0603 0805 1206

**Part Numbering System**

- : Packaging (-T=T&R)
- : Inductance (1R0=1.0μH)
- : Inductance tolerance (K=10%, M=20%)

\*Images not to scale

**HK Series:** Multilayer ceramic chip inductors with excellent Q and SRF characteristics. These inductors were designed to address needs in applications above 100 MHz.

Part Number	Case Size	L (nH)	Q Typ.	Self-resonant Frequency (MHz)	DC Resistance (Ω) max	Rated Current (mA) max	Dimensions in./(mm)		
							L	W	t
HK1005 (High frequency applications)	0402	1.0-56 (@100MHz)	10-11 (@100 MHz)	750-4000min	0.12-1.4	150-300	.039±.002 (1.0±0.05)	.020±.002 (.50±0.05)	.020±.002 (.50±0.05)
HK1608 (High frequency applications)	0603	1.5-220 (@100MHz)	10-18 (@100 MHz)	400-4,000min	0.1-1.5	300	.063±.006 (1.6±0.15)	.031±.006 (0.8±0.15)	.031±.006 (0.8±0.15)
HK2125 (High frequency applications)	0805	1.5-470 (@100MHz)	17-24 (@100 MHz)	200-4000min	0.1-1.5	300	.079±.012 (2.0±0.2)	.049±.008 (1.25±0.2)	.033±.008 (0.85±0.3)
								.039±.008 (1.0±0.2)	

**HK Type**

0402 0603 0805

**Part Numbering System**

- : Packaging (-T=T&R)
- : Inductance (3N3=3.3nH)
- : Inductance tolerance (S=±0.3nH, J=5%, K=10%)

\*Images not to scale

## WOUND CHIP INDUCTORS

**LEM Series:** Low cost, wire wound ferrite core construction with a heat-resistant molded resin housing for excellent mechanical strength. LEMC2520 and LEMC3225 types are available with higher current ratings than the standard types; LEMF2520 is a low Rdc type.

Part Number	Case Size	L (μH)	Q min	Self-resonant Frequency (MHz)	DC Resistance (Ω)	Rated Current (mA) max
LEM2520	1008	0.12-100	15-30	9-600min	0.37-21(max)	60-520
LEMC2520	1008	1.0-33	20-30	16-165min	0.4-6.5(max)	120-475
LEMF2520	1008	1.0-100	10-20	8-100min	0.13-5.50(±30%)	40-455
LEM3225	1210	0.01-220	10-30	5-2500min	0.09-17(±40%)	50-720
LEMC3225	1210	1.0-330	10-20	5-100min	0.10-13(±30%)	60-850
LEM4532	1812	0.22-220	40-50	5-150min	0.1-1.1(±50%) 1.2-9.8(±40%)	70-710

LEM2520/LEMC2520/LEMF2520 Type

LEM3225/LEMC3225 Type

LEM4532 Type

**LEM Type**

1008 1210 1812

\*Images not to scale

**Part Numbering System**

- : Packaging (T=T&R)
- : Inductance (1R0=1.0μH)
- : Inductance tolerance (J=5%, K=10%, M=20%)

Type	Dimensions in./(mm)		
	L	W (D)	H
LEM2520/ LEMC2520/ LEMF2520	.098±.008 (2.5±0.2)	.079±.008 (2.0±0.2)	.071±.008 (1.8±0.2)
LEM3225/ LEMC3225	.126±.008 (3.2±0.2)	.098±.008 (2.5±0.2)	.091±.008 (2.3±0.2)
LEM4532	.177±.012 (4.5±0.3)	.126±.008 (3.2±0.2)	.126±.008 (3.2±0.2)