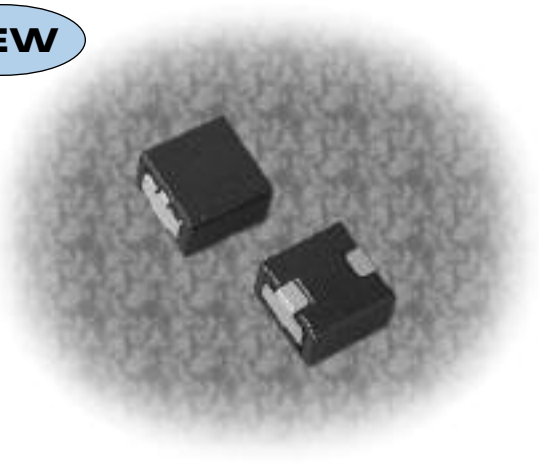
KOA SPEER ELECTRONICS, INC.

LCM1060

choke coil inductor

EU RoHS COMPLIANT

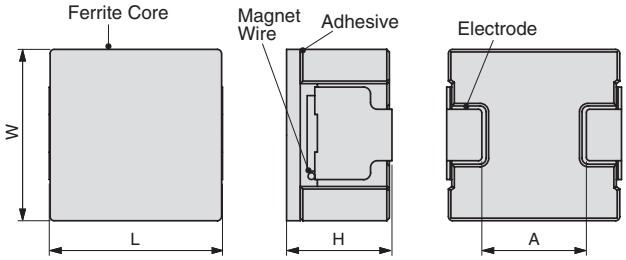
NEW



features

- Original construction and wiring technology delivers low DC resistance, high allowable current and low leakage magnetic flux
- Automatic surface mounting is applicable
- Excellent solderability and endurance environment
- Suitable for reflow soldering
- Products meet EU RoHS requirements
- AEC-Q200 Qualified

dimensions and construction



Size	Dimensions inches (mm)			
	L	W	H	A
LCM1060	.398±.016 (10.1±0.4)	.394±.016 (10.0±0.4)	.242±.016 (6.15±0.4)	.240 (6.1 typ.)

ordering information

New Part #

LPM1060	T	TEG	100	M
Type	Terminal Surface Material	Taping	Nominal Inductance	Tolerance
	T: Sn	TEG: Plastic embossed BK: Bulk	3 digits	M: ±20% N: ±30%

For further information on packaging, please refer to Appendix A.

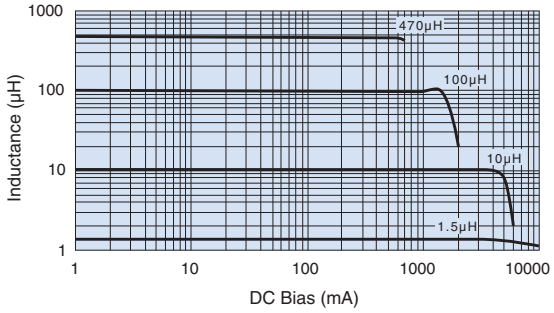
applications and ratings

Part Designation	Nominal Inductance (µH)	Tolerance (%)	DC Resistance (MΩ)	Typ. Saturation Current (A)	Typ. Temperature Rise Current (A)	Self Resonant Frequency (MHz) Typ.	Operating Temperature Range
LCM1060TTEG1R5N	1.5	±30%	10.64	6.8	6.8	154.94	-40°C to +125°C
LCM1060TTEG2R2N	2.2		11.94	6.6	6.8	96.88	
LCM1060TTEG3R3N	3.3		12.75	6.4	5.7	69.79	
LCM1060TTEG4R7N	4.7		18.18	5.6	5.6	70.29	
LCM1060TTEG6R8N	6.8		21.29	5.2	4.9	35.85	
LCM1060TTEG100M	10	±20%	28.61	4.2	4.1	19.89	
LCM1060TTEG150M	15		40.40	3.8	3.7	20.89	
LCM1060TTEG220M	22		48.00	3.2	2.8	12.63	
LCM1060TTEG330M	33		73.00	2.5	2.2	11.71	
LCM1060TTEG470M	47		103.7	2.2	2.1	9.90	
LCM1060TTEG680M	68		127.0	1.7	1.6	8.77	
LCM1060TTEG101M	100		190.0	1.5	1.4	7.14	
LCM1060TTEG151M	150		304.8	1.2	1.0	4.95	
LCM1060TTEG221M	220		383.0	1.0	0.9	4.38	
LCM1060TTEG331M	330		581.0	0.8	0.8	3.48	
LCM1060TTEG471M	470		892.0	0.68	0.6	2.60	

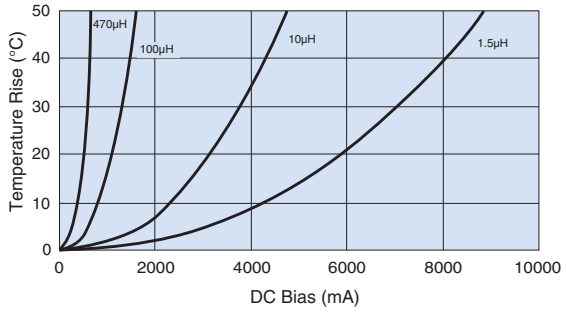
Saturation current: This indicates the value of D.C. current when inductance becomes 90% nominal value.
Temperature rise current: The value of D.C. current when temperature of coil becomes Δt=40°C.

environmental applications

DC Bias Characteristics



Surface Temperature Rise



Performance Characteristics

Parameter	Requirement Δ L/L Limit	Requirement Δ L/L Typical	Test Method
Heat Shock	±5%	±1%	-40°C (30 minutes), +125°C (30 minutes), 100 cycles
Low Temperature Exposure	±5%	±1%	-40°C ±2°C, 1000 hours
High Temperature Exposure	±5%	±1%	125°C ±2°C, 1000 hours
Moisture Endurance	±5%	±1%	85°C, 85% RH, 1000 hours