

1.FEATURES

RoHS compliant
 Super low resistance, ultra high current rating
 High performance (Isat) realized by metal dust core
 Frequency Range

2.APPLICATION

PDA, notebook, desktop, and server applications.
 Low profile, high current power supplies.
 DC/DC converters in distributed power systems.
 DC/DC converters for field programmable gate array.

3.PRODUCT IDENTIFICATION

YKMQ 070707 -XXX □ I (f)
 ① ② ③ ④ ⑤ ⑥

①	Type
YKNR	Wire Wound SMD Type Power Inductors

②	External Dimensions (L X H) (mm)	
	070707	7.7*7.7*7.9
	080808	7.7*9.3*7.9
	1010A	10.5*10.5*11.0
	1010B	10.5*10.5*10.0
	101210	10.7*12.7*10.0
	1110	11.5*11.5*10.0
	121310	12.3*13.3*10.0
	121315	12.4*13.4*15.0
	131510	13.5*16.0*11.0

③	Nominal Inductance	
Example	Nominal Value	
1R0	1.0μH	
100	10μH	
101	100μH	

④	Inductance Tolerance	
K	±10%	
M	±20%	
N	±30%	

⑤	Packing	
T	Tape Carrier Package	

⑥	Environmental state	
(f)	environment-friendly products	

4.SHAPE AND DIMENSIONS

Fig 1.

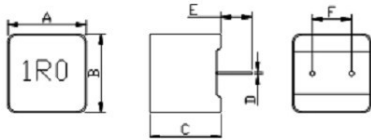


Fig 2.

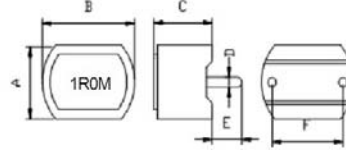


Fig3.

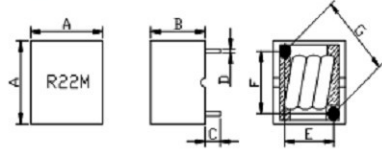
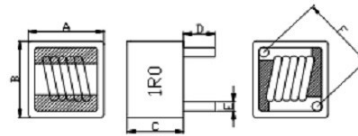


Fig4.



Unit: mm

Series	Shape	A	B	C	D	E	F
YKMQ070707	Fig 1.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ080808	Fig 2.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ1010A	Fig 1.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ1010B	Fig 1.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ101210	Fig 2.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ1110	Fig 1.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ121310	Fig 1.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ121315	Fig 2.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMQ131510	Fig 2.	7.7±0.5	7.7±0.5	7.7±0.5	PIN DIM	7.7±0.5	7.7±0.5
YKMU1009	Fig3.	10.2MAX	10.5MAX	9.5MAX	PIN DIM	3.0±0.5	
YKMU1109	Fig3.	11.5MAX	11.5MAX	10.0MAX	PIN DIM	3.0±0.5	
YKMU1110T	Fig3.	11.5MAX	11.5MAX	10.0MAX	PIN DIM	3.0±0.5	
YKMY1108	Fig4.	11.7MAX	11.7MAX	8.6MAX	PIN DIM	3.0±0.5	8.5-9.0

5.SPECIFICATIONS

YKMQ070707-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ070707-1R0MT(f)	1.0	3.3	4.5	21.0	12.0
YKMQ070707-1R5MT(f)	1.5	4.1	4.5	20.0	10.0
YKMQ070707-2R2MT(f)	2.2	4.8	6.0	14.0	9.0
YKMQ070707-2R8MT(f)	2.8	5.2	6.5	14.0	9.0
YKMQ070707-3R3MT(f)	3.3	7.0	7.5	14.0	9.5
YKMQ070707-4R7MT(f)	4.7	11.5	15.0	10.0	6.0

YKMQ080808-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ080808-1R0MT(f)	1.0	3.5	4.5	21.0	12.0
YKMQ080808-1R5MT(f)	1.5	3.8	5.0	19.0	10.0
YKMQ080808-2R2MT(f)	2.2	6.5	8.0	14.0	9.0
YKMQ080808-2R8MT(f)	2.8	7.5	10.0	13.0	8.0

YKMQ1010A-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ1010A -100MT(f)	10	14.0	16.0	9.0	5.0
YKMQ1010A -150MT(f)	15	24.5	28.0	7.0	4.5
YKMQ1010A -220MT(f)	22	27.5	32.0	6.0	4.0
YKMQ1010A -330MT(f)	33	48.0	52.0	5.0	3.5
YKMQ1010A -470MT(f)	47	77.0	80.0	3.0	2.0

YKMQ1010B-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ1010B -R36MT(f)	0.36	0.66	0.80	40.0	32.0
YKMQ1010B -R47MT(f)	0.47	0.66	0.80	40.0	30.0
YKMQ1010B -R60MT(f)	0.60	0.95	1.20	38.0	28.0
YKMQ1010B -R68MT(f)	0.68	0.95	1.20	36.0	25.0
YKMQ1010B -R80MT(f)	0.8	1.00	1.30	35.0	24.0
YKMQ1010B -1R0MT(f)	1.0	1.50	1.80	30.0	20.0
YKMQ1010B -2R2MT(f)	2.2	3.20	3.60	25.0	16.0
YKMQ1010B -3R3MT(f)	3.3	5.30	6.00	16.0	11.0

YKMQ101210-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ101210 -R22MT(f)	0.22	0.4	0.5	43.0	31.0
YKMQ101210 -R27MT(f)	0.27	0.4	0.5	43.0	31.0
YKMQ101210 -R33MT(f)	0.33	0.4	0.5	43.0	31.0
YKMQ101210 -R47MT(f)	0.47	0.6	0.8	40.0	30.0
YKMQ101210 -R56MT(f)	0.56	0.6	0.8	40.0	30.0
YKMQ101210 -R68MT(f)	0.68	0.8	1.0	40.0	30.0
YKMQ101210 -1R0MT(f)	1.0	1.5	2.0	32.0	21.0
YKMQ101210 -1R2MT(f)	1.2	1.5	2.0	32.0	21.0
YKMQ101210 -1R5MT(f)	1.5	1.8	3.0	30.0	16.0
YKMQ101210 -2R2MT(f)	2.2	2.1	3.5	26.0	13.0
YKMQ101210 -3R3MT(f)	3.3	6.1	7.0	16.0	11.0
YKMQ101210 -4R7MT(f)	4.7	6.0	7.0	13.0	10.0
YKMQ101210 -100MT(f)	10.0	14.5	16.5	9.6	5.0
YKMQ101210 -220MT(f)	22.0	22.0	30.0	8.0	5.0

YKMQ1110-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ1110 –R56MT(f)	0.56	0.80	0.9	43.0	30.0
YKMQ1110 –1R0MT(f)	1.0	1.50	2.0	32.0	21.0
YKMQ1110 –1R2MT(f)	1.2	1.50	2.0	30.0	20.0
YKMQ1110 –2R0MT(f)	2.0	2.75	3.2	26.0	15.0
YKMQ1110 –3R3MT(f)	3.3	5.35	6.0	16.0	11.0

YKMQ121310-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
MQ121310 –R22MT(f)	0.22	0.35	0.45	43.0	30.0
MQ121310 –R47MT(f)	0.47	0.50	0.60	43.0	30.0
MQ121310 –R68MT(f)	0.68	0.75	0.90	40.0	30.0
MQ121310 –R80MT(f)	0.80	0.82	1.00	40.0	30.0
MQ121310 –1R0MT(f)	1.0	1.00	1.20	38.0	28.0
MQ121310 –1R5MT(f)	1.5	1.15	1.40	30.0	25.0
MQ121310 –2R2MT(f)	2.2	1.50	2.00	27.0	23.0
MQ121310 –3R3MT(f)	3.3	2.70	3.20	25.0	20.0
MQ121310 –4R7MT(f)	4.7	4.80	5.20	22.0	18.0
MQ121310 –6R8MT(f)	6.8	6.10	6.50	20.0	15.0
MQ121310 –100MT(f)	10.0	9.00	9.50	18.0	10.0

YKMQ121315-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
MQ121315 –100MT(f)	10	8.2	10.0	13.0	10.0
MQ121315 –150MT(f)	15	14.9	20.0	12.0	8.0
MQ121315 –220MT(f)	22	17.5	20.0	11.0	8.0
MQ121315 –330MT(f)	33	30.0	30.0	8.0	6.0
MQ121315 –470MT(f)	47	34.5	40.0	7.0	5.0
MQ121315 –101MT(f)	100	74.2	80.0	3.0	2.0
MQ121315 –241MT(f)	240	170	180.0	2.0	2.0

YKMQ131510-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMQ131510-R47MT(f)	0.47	0.6	0.7	43.0	40.0
YKMQ131510-1R0MT(f)	1.0	0.9	1.0	40.0	30.0
YKMQ131510-1R5MT(f)	1.5	1.4	2.0	35.0	27.0
YKMQ131510-2R2MT(f)	2.2	1.6	2.0	35.0	20.0
YKMQ131510-3R3MT(f)	3.3	2.8	3.2	26.0	20.0
YKMQ131510-4R7MT(f)	4.7	4.8	5.2	24.0	18.0
YKMQ131510-6R8MT(f)	6.8	5.6	6.0	24.0	16.0
YKMQ131510-7R5MT(f)	7.5	7.2	7.5	20.0	14.0
YKMQ131510-100MT(f)	10	8.5	10.0	18.0	12.0
YKMQ131510-220MT(f)	22	20.5	22.0	9.0	8.0
YKMQ131510-330MT(f)	33	30.0	35.0	7.0	6.0
YKMQ131510-470MT(f)	47	35.0	39.0	6.0	5.5
YKMQ131510-680MT(f)	68	50.0	55.0	5.0	5.0
YKMQ131510-820MT(f)	82	55.0	60.0	4.5	4.5
YKMQ131510-101MT(f)	100	80.0	85.0	4.0	4.0

YKMU1009-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMU1009-R22MT(f)	0.22	0.53	0.65	40.0	33.0
YKMU1009-R36MT(f)	0.36	0.70	0.90	40.0	33.0
YKMU1009-R47MT(f)	0.47	0.70	0.90	34.0	28.0
YKMU1009-R50MT(f)	0.50	0.70	0.90	32.0	26.0
YKMU1009-R56MT(f)	0.56	0.70	0.90	32.0	26.0
YKMU1009-R80MT(f)	0.80	1.28	1.56	30.0	20.0
YKMU1009-1R0MT(f)	1.0	1.28	1.56	28.0	20.0
YKMU1009-2R2MT(f)	2.2	4.0	3.10	18.0	13.0

YKMU1109-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMU1109-R22MT(f)	0.22	0.50	0.75	40.0	30.0
YKMU1109-R56MT(f)	0.56	1.00	1.30	40.0	28.0
YKMU1109-1R0MT(f)	1.0	1.20	1.50	28.0	24.0
YKMU1109-1R2MT(f)	1.2	1.20	1.50	26.0	22.0
YKMU1109-2R2MT(f)	2.2	2.30	3.00	25.0	18.0

YKMU1110T-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMU1110T -R47MT(f)	0.47	1.00	1.30	40.0	30.0
YKMU1110T -R60MT(f)	0.60	1.00	1.30	40.0	30.0
YKMU1110T -1R0MT(f)	1.0	1.47	1.55	35.0	28.0
YKMU1110T -1R2MT(f)	1.2	1.47	1.55	35.0	28.0
YKMU1110T -1R5MT(f)	1.5	2.50	3.00	30.0	20.0
YKMU1110T -2R0MT(f)	2.0	3.20	3.50	20.0	20.0

YKMY1108-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMY1108 -R25MT(f)	0.25	0.72	1.00	50.0	40.0
YKMY1108 -R36MT(f)	0.36	0.72	1.00	50.0	40.0
YKMY1108 -R47MT(f)	0.47	0.80	1.10	40.0	33.0
YKMY1108 -R60MT(f)	0.60	0.87	0.95	40.0	32.0
YKMY1108 -1R0MT(f)	1.0	1.35	1.60	40.0	24.0
YKMY1108 -1R5MT(f)	1.5	2.70	3.50	30.0	16.0
YKMY1108 -2R2MT(f)	2.2	4.00	5.00	30.0	14.0
YKMY1108 -3R3MT(f)	3.3	8.00	12.00	20.0	11.0
YKMY1108 -4R7MT(f)	4.7	13.50	16.00	16.0	8.0