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,andserver 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

YKMS ① 0603 ② -XXX ③ □ ④ T ⑤ (f) ⑥

① Type	
YKMS	Wire Wound SMD Type Power Inductors

② External Dimensions (L X H) (mm)	
0603	7.6*7.1*3.2
0605	7.8*7.1*5.0
1004	11.6*10.3*4.2
1306	13.8*13.1*6.5

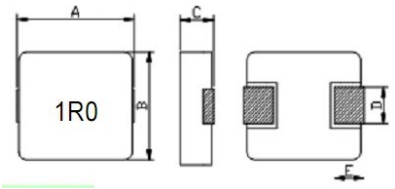
③ Nominal Inductance	
Example	Nominal Value
R47	0.47uH
1R0	1.0μH
100	10μH

④ Inductance Tolerance	
M	±20%

⑤ Packing	
T	Tape Carrier Package

⑥ Environmental state	
(f)	environment-friendly products

4.SHAPE AND DIMENSIONS



Unit: mm

Series	A	B	C	D	E
YKMS0603	7.6MAX	7.1MAX	3.2MAX	3.0REF	1.6±0.6
YKMS0605	7.8MAX	7.1MAX	5.0MAX	3.0REF	1.6±0.6
YKMS1004	11.6MAX	10.3MAX	4.2MAX	3.0REF	1.6±0.6
YKMS1306	13.8MAX	13.1MAX	6.5MAX	3.0REF	1.6±0.6

5.Electrical Characteristics

YKMS0603-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMS0603- R47MT(f)	0.47	5.0	6.5	26.0	14.0
YKMS0603- R68MT(f)	0.68	6.0	7.5	24.0	12.0
YKMS0603- R82MT(f)	0.82	7.0	8.5	22.0	12.0
YKMS0603-1R0MT(f)	1.0	8.2	10.0	20.0	10.0
YKMS0603- 1R5MT(f)	1.5	12.0	15.0	14.0	9.0
YKMS0603- 2R2MT(f)	2.2	15.0	18.0	14.0	8.0
YKMS0603- 3R3MT(f)	3.3	20.0	25.0	12.0	6.0
YKMS0603- 4R7MT(f)	4.7	36.0	40.0	10.0	5.0
YKMS0603- 6R8MT(f)	6.8	53.0	60.0	8.0	4.0
YKMS0603- 8R2MT(f)	8.2	68.0	75.0	6.0	3.5
YKMS0603- 100MT(f)	10	72.0	80.0	5.0	3.0

YKMS0605-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMS0605- R82MT(f)	0.82	5.0	8.0	22.0	15.0
YKMS0605-1R0MT(f)	1.0	5.0	6.5	20.0	14.5
YKMS0605-1R5MT(f)	1.5	6.5	8.0	18.0	14.0
YKMS0605- 2R2MT(f)	2.2	13.0	16.0	14.0	12.0
YKMS0605- 3R3MT(f)	3.3	15.0	18.0	13.0	10.0
YKMS0605- 4R7MT(f)	4.7	30.0	35.0	12.0	7.5
YKMS0605- 6R8MT(f)	6.8	45.0	50.0	10.0	6.0
YKMS0605- 8R2MT(f)	8.2	55.0	60.0	8.0	4.5
YKMS0605- 100MT(f)	10	55.0	65.0	7.0	4.0
YKMS0605- 120MT(f)	12	60.0	68.0	5.0	3.5
YKMS0605- 150MT(f)	15	64.0	70.0	4.5	3.5

YKMS1001-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMS1004 – R36MT(f)	0.36	1.5	2.0	35.0	20.0
YKMS1004 – R47MT(f)	0.47	1.7	2.2	35.0	16.0
YKMS1004 – R68MT(f)	0.68	3.2	4.2	30.0	14.0
YKMS1004 – 1R0MT(f)	1.0	3.8	4.9	25.0	13.0
YKMS1004 – 1R5MT(f)	1.5	4.5	5.5	22.0	10.0
YKMS1004 – 2R2MT(f)	2.2	6.7	8.7	19.0	9.0
YKMS1004 – 3R3MT(f)	3.3	15.6	18.0	17.0	8.0
YKMS1004 – 4R7MT(f)	4.7	19.0	22.0	15.0	7.0
YKMS1004 – 6R8MT(f)	6.8	20.0	25.0	12.0	6.0
YKMS1004 – 8R2MT(f)	8.2	25.0	30.0	10.0	5.5
YKMS1004 – 100MT(f)	10	30.0	35.0	8.0	5.0

YKMS1306-Series

Part Number	L(uH)	DCR		Isat(A)	Irms(A)
	±20%	TYP	MAX	TYP	MAX
YKMS1306 –R47MT(f)	0.47	1.6	2.5	40.0	25.0
YKMS1306 –R68MT(f)	0.68	1.6	2.5	40.0	22.0
YKMS1306 –1R0MT(f)	1.0	2.3	3.0	36.0	20.0
YKMS1306 –1R5MT(f)	1.5	2.8	4.0	35.0	18.0
YKMS1306 –2R2MT(f)	2.2	5.2	8.0	30.0	16.0
YKMS1306 –3R3MT(f)	3.3	7.2	10.0	25.0	12.0
YKMS1306 –4R7MT(f)	4.7	8.5	11.0	22.0	10.0
YKMS1306 –5R6MT(f)	5.6	10.5	13.0	20.0	9.0
YKMS1306 –6R8MT(f)	6.8	11.0	15.0	16.0	8.0
YKMS1306 –8R2MT(f)	8.2	15.0	20.0	13.0	6.0
YKMS1306 –100MT(f)	10	20.0	26.0	10.0	5.0

6.NOTES

1.Test Frequency:100KHZ/1.0V;

2.Irms:DC current (A) that will cause an approximate △T of 40℃;

3.Isat:DC current (A) that will cause Lo to drop approximately 30% typ;

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