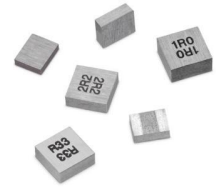


## Features

- Magnetically Shielded construction
- High performance (Isat) realized by metal dust core
- Ultra low buzz noise, due to composite construction
- 100% lead (Pb) free meet RoHS standard
- Operating temperature: -40°C to +125°C



## Application

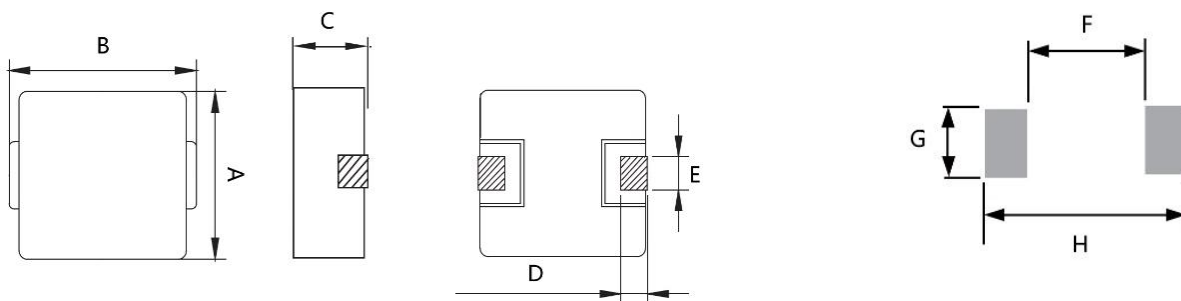
- DC/DC converters for high current power supplies
- Battery powered devices
- Portable power like PAD/Notebook/Desktop/Server application

## Product Identification

KSH    4012    1R5    M  
 ①            ②            ③            ④

- ① Series name
- ② Size: 4.2×4.4×1.0mm
- ③ Inductance: 1.5μH
- ④ Tolerance: ±20%

## SHAPE AND DIMENSIONS



Unit: mm

Series	A	B	C	D	E	H Typ.	F Typ.	G Typ.
KSH4012	4.2±0.25	4.4±0.35	1.0±0.2	0.8±0.3	2.0±0.3	5.5	2.2	2.5
KSH4020	4.2±0.25	4.4±0.35	1.8±0.2	0.8±0.3	2.0±0.3	5.5	2.2	2.5
KSH5020	5.2±0.2	5.4±0.35	1.6±0.2	1.20±0.2	2.2±0.3	6.0	2.2	2.5
KSH5030	5.2±0.2	5.4±0.35	2.8±0.2	1.20±0.2	2.2±0.3	6.0	2.2	2.5
KSH7018	6.6±0.2	7.0±0.3	1.6±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5
KSH7020	6.6±0.2	7.0±0.3	1.8±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5
KSH7024	6.6±0.2	7.0±0.3	2.2±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5
KSH7030	6.6±0.2	7.0±0.3	2.8±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5
KSH7040	6.6±0.2	7.0±0.3	3.8±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5
KSH7050	6.6±0.2	7.0±0.3	4.8±0.2	1.6±0.3	3.0±0.3	8.4	3.7	3.5

KSH8040	8.8±0.4	8.2±0.3	3.8±0.2	1.4±0.3	5.0±0.3	9.5	4.0	5.5
KSH1030	10.0±0.3	11.5 Max	2.8±0.2	2.0±0.5	3.0±0.3	13.6	5.4	4.1
KSH1040	10.0±0.3	11.0±0.5	3.8±0.2	2.0±0.5	3.0±0.5	13.6	5.4	4.1
KSH1050	10.0±0.3	11.5 Max	4.8±0.2	2.0±0.5	3.0±0.5	13.6	5.4	4.1
KSH1340	12.8±0.5	13.45±0.35	4.0 Max	2.0±0.5	See Remarks	14.5	8.0	5.5
KSH1350	12.6±0.3	13.45±0.35	4.8±0.2	2.0±0.5	See Remarks	14.5	8.0	5.5
KSH1360	12.6±0.3	13.45±0.35	5.8±0.2	2.0±0.5	See Remarks	14.5	8.0	5.5
KSH1365	12.6±0.3	13.45±0.35	6.5 Max	2.0±0.5	5.0±0.3	14.5	8.0	5.5
KSH1707	17.15Max	17.15±0.35	6.7±0.3	2.5±0.5	12.0±0.3	18.2	11.2	12.8

Note:

Series	E(mm)	Dimensions
KSH1340	3.85±0.5	R22/R47
	5.0±0.3	R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220
KSH1350	3.85±0.5	R22/R36/R50/R68/R82/1R0/1R5/2R2
	5.0±0.3	3R3/4R7/6R8/100/150/220/330/470
KSH1360	3.85±0.5	1R5/2R2
	5.0±0.3	3R3/4R7/5R6/6R8/8R2/100/120/150/180/220/270/330/470/680/101/121/151

## SPECIFICATIONS

### KSH4012M Series

Part Number	Inductance	DC Resistance	Saturation Current*3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH4012-R15M	0.15±20%	9	12.00	15.00	6.80	7.50
KSH4012-R22M	0.22±20%	11	8.80	11.00	6.50	7.00
KSH4012-R33M	0.33±20%	19	6.70	8.40	5.70	6.50
KSH4012-R47M	0.47±20%	21	5.40	6.80	5.20	6.00
KSH4012-R68M	0.68±20%	36	4.80	6.00	4.20	4.70
KSH4012-1R0M	1.0±20%	47	4.40	5.50	3.80	4.50
KSH4012-1R5M	1.5±20%	75	3.20	4.00	2.70	3.25
KSH4012-2R2M	2.2±20%	83.5	2.40	3.00	2.20	2.75
KSH4012-3R3M	3.3±20%	160	2.38	2.7	1.77	2.00
KSH4012-4R7M	4.7±20%	195	1.80	2.20	1.45	1.80

## SPECIFICATIONS

### KSH4020M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH4020-R10M	0.10±20%	4	17.60	22.00	11.20	13.00
KSH4020-R22M	0.22±20%	6.6	10.00	12.50	8.20	9.50
KSH4020-R33M	0.33±20%	11	9.60	12.00	8.60	10.00
KSH4020-R47M	0.47±20%	14	7.60	9.50	6.65	7.50
KSH4020-R56M	0.56±20%	16	7.20	9.00	6.10	7.00
KSH4020-R68M	0.68±20%	18	6.40	8.00	6.15	7.00
KSH4020-1R0M	1.0±20%	27	5.60	7.00	5.40	6.00
KSH4020-1R2M	1.2±20%	27	5.20	6.50	5.40	6.00
KSH4020-1R5M	1.5±20%	46	4.40	5.50	4.30	5.00
KSH4020-2R2M	2.2±20%	58	4.00	5.00	3.80	4.50
KSH4020-3R3M	3.3±20%	87	2.80	3.50	2.80	3.30
KSH4020-4R7M	4.7±20%	105	2.40	3.00	2.20	2.80
KSH4020-6R8M	6.8±20%	175	2.00	2.50	1.90	2.40
KSH4020-100M	10±20%	282	1.60	2.00	1.30	1.60
KSH4020-220M	22±20%	363	1.12	1.40	0.90	1.20

### KSH5020M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH5020-R47M	0.47±20%	9	9.60	12.00	9.50	10.50
KSH5020-R56M	0.56±20%	10	8.80	11.00	8.20	9.50
KSH5020-1R0M	1.0±20%	17	7.20	9.00	7.20	8.00
KSH5020-1R5M	1.5±20%	26	6.40	8.00	6.60	7.50
KSH5020-2R2M	2.2±20%	35	4.80	6.00	4.20	5.00
KSH5020-3R3M	3.3±20%	58	3.84	4.80	3.80	4.50
KSH5020-4R7M	4.7±20%	85	3.20	4.00	3.00	3.50
KSH5020-6R8M	6.8±20%	120	2.72	3.40	2.40	2.80
KSH5020-100M	10±20%	155	2.00	2.50	2.20	2.50

## SPECIFICATIONS

### KSH5030M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH5030-R10M	0.10±20%	3.0	24.00	30.00	23.00	25.00
KSH5030-R20M	0.20±20%	3.9	16.00	20.00	13.00	14.00
KSH5030-R33M	0.33±20%	5.5	14.40	18.00	13.10	14.00
KSH5030-R47M	0.47±20%	8.5	12.00	15.00	10.00	11.00
KSH5030-R68M	0.68±20%	12	9.20	11.50	8.20	9.00
KSH5030-R82M	0.82±20%	10.4	9.20	10.50	9.0	10.5
KSH5030-1R0M	1.0±20%	14	8.00	10.00	7.80	8.50
KSH5030-1R2M	1.2±20%	16	7.60	9.50	7.85	8.50
KSH5030-1R5M	1.5±20%	25	7.20	9.00	7.60	8.20
KSH5030-2R2M	2.2±20%	29	5.60	7.00	6.40	7.00
KSH5030-3R3M	3.3±20%	38	4.80	6.00	5.50	5.50
KSH5030-4R7M	4.7±20%	60	3.68	4.60	4.00	4.50
KSH5030-6R8M	6.8±20%	90	2.88	3.60	2.90	3.50
KSH5030-100M	10±20%	125	2.80	3.50	2.80	3.20
KSH5030-150M	15±20%	170	2.00	2.20	1.60	1.80

### KSH7018M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7018-R10M	0.10±20%	2.3	30.40	38.00	23.00	25.00
KSH7018-R22M	0.22±20%	3.5	19.20	24.00	20.00	22.00
KSH7018-R47M	0.47±20%	8.4	14.40	18.00	10.00	11.50
KSH7018-R68M	0.68±20%	12	13.20	16.50	8.40	9.50
KSH7018-1R0M	1.0±20%	16	9.60	12.00	7.60	8.50
KSH7018-1R5M	1.5±20%	26	7.36	9.20	7.10	8.00
KSH7018-2R2M	2.2±20%	35	6.40	8.00	6.20	7.00
KSH7018-3R3M	3.3±20%	50	4.80	6.00	3.80	4.50
KSH7018-4R7M	4.7±20%	62	4.00	5.00	3.50	4.00

KSH7018-6R8M	6.8±20%	110	3.60	4.50	2.40	3.00
KSH7018-8R2M	8.2±20%	135	2.90	3.60	2.10	2.40
KSH7018-100M	10±20%	155	3.20	4.00	1.95	2.30
KSH7018-220M	22±20%	350	1.84	2.30	1.40	1.80

## KSH7020M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	µH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7020-1R5M	1.5±20%	18	10	12	7.0	8.0
KSH7020-4R7M	4.7±20%	60	-	5.5	-	4.3
KSH7020-100M	10±20%	145	-	4.0	-	2.8

## KSH7024M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	µH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7024-R22M	0.22±20%	3	24.00	30.00	19.00	21.00
KSH7024-R33M	0.33±20%	4.1	19.60	24.50	16.00	18.00
KSH7024-R47M	0.47±20%	5.1	16.00	20.00	13.50	15.00
KSH7024-R56M	0.56±20%	6.5	13.60	17.00	11.50	13.00
KSH7024-R68M	0.68±20%	7	12.80	16.00	10.50	12.00
KSH7024-1R0M	1.0±20%	13.5	12.00	15.00	8.00	9.00
KSH7024-1R5M	1.5±20%	20	10.80	13.50	7.00	8.20
KSH7024-2R2M	2.2±20%	28	8.00	10.00	6.20	7.00
KSH7024-3R3M	3.3±20%	39	6.40	8.00	4.80	5.50
KSH7024-4R7M	4.7±20%	50	5.20	6.50	4.30	5.00
KSH7024-6R8M	6.8±20%	70	4.80	6.00	3.20	4.00
KSH7024-100M	10±20%	101	3.20	4.00	2.40	3.10
KSH7024-150M	15±20%	160	2.64	3.30	2.00	2.50
KSH7024-220M	22±20%	230	2.00	2.50	1.60	2.00

## SPECIFICATIONS

### KSH7030M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V		Max.	Max.	Typ.	Max.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7030-R22M	0.22±20%	3	27.20	34.00	21.00	24.00
KSH7030-R24M	0.24±20%	3.1	22.40	28.00	18.40	23.00
KSH7030-R24MY02	0.24±20%	1.19±7%	30.00	35.00	26.00	30.00
KSH7030-R33M	0.33±20%	3.5	20.00	25.00	19.00	21.00
KSH7030-R47M	0.47±20%	4.1	16.00	20.00	16.50	18.00
KSH7030-R56M	0.56±20%	4.5	14.40	18.00	15.00	16.50
KSH7030-R68M	0.68±20%	5.3	13.60	17.00	14.50	16.00
KSH7030-R82M	0.82±20%	6.0	12.80	16.00	12.50	14.00
KSH7030-1R0M	1.0±20%	7.4	12.00	15.00	10.50	12.00
KSH7030-1R5M	1.5±20%	12.1	9.60	12.00	10.50	12.00
KSH7030-1R5MB01	1.5±20%	11	-	14.00	-	10.5
KSH7030-1R8M	1.8±20%	15	14.0	15.5	8.7	9.5
KSH7030-2R2M	2.2±20%	15	8.00	10.00	8.50	9.50
KSH7030-3R3M	3.3±20%	22	7.60	9.50	7.50	8.50
KSH7030-4R7M	4.7±20%	33	7.20	9.00	5.00	6.00
KSH7030-5R6M	5.6±20%	42	5.20	6.50	4.80	5.50
KSH7030-6R8M	6.8±20%	48	4.80	6.00	4.20	5.00
KSH7030-8R2M	8.2±20%	60	4.40	5.50	4.20	5.00
KSH7030-100M	10±20%	68	4.40	5.50	3.80	4.50
KSH7030-150M	15±20%	113	3.20	4.00	2.30	3.00
KSH7030-220M	22±20%	170	2.40	3.00	2.00	2.50
KSH7030-330M	33±20%	270	2.00	2.50	1.60	2.00
KSH7030-330MB01	33±20%	210	2.00	2.50	1.70	2.2
KSH7030-470M	47±20%	385	1.60	2.00	1.20	1.50

## SPECIFICATIONS

### KSH7040M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ, 1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7040-R68M	0.68±20%	4.8	/	19.0	/	17.0
KSH7040-1R0M	1.0±20%	6.6	/	16.0	/	13.5
KSH7040-1R5M	1.5±20%	10	/	12.5	/	12.4
KSH7040-2R2M	2.2±20%	14	8.80	11.0	7.80	10.0
KSH7040-3R3M	3.3±20%	20	/	9.5	/	8.5
KSH7040-4R7M	4.7±20%	30	7.20	9.0	6.00	6.50
KSH7040-6R8M	6.8±20%	45	/	6.5	/	5.5
KSH7040-100M	10±20%	65	/	6.0	/	4.8

### KSH7050M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ, 1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH7050-R47M	0.47±20%	3.9	16.80	21.0	17.0	20.00
KSH7050-R68M	0.68±20%	4.5	14.40	18.0	14.5	16.50
KSH7050-1R0M	1.0±20%	6.6	12.80	16.0	10.0	12.00
KSH7050-1R5M	1.5±20%	10	10.40	13.0	8.2	9.50
KSH7050-2R2M	2.2±20%	12.5	8.80	11.0	8.0	9.00
KSH7050-3R3M	3.3±20%	22	8.00	10.0	7.6	8.50
KSH7050-4R7M	4.7±20%	29	6.40	8.0	5.0	6.00
KSH7050-6R8M	6.8±20%	41	5.04	6.3	4.0	5.80
KSH7050-8R2M	8.2±20%	48	4.40	5.5	4.8	5.50
KSH7050-100M	10±20%	60	4.24	5.30	3.8	4.50
KSH7050-150M	15±20%	90	3.20	4.0	2.60	3.10
KSH7050-220M	22±20%	140	2.80	3.50	2.00	2.60
KSH7050-330M	33±20%	190	2.40	3.0	1.80	2.30
KSH7050-470M	47±20%	230	2.08	2.6	1.50	2.00

## SPECIFICATIONS

### KSH8040M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH8040-R22M	0.22±20%	1.8	55.0	60	30.0	36.0
KSH8040-R33M	0.33±20%	2.	40.0	45	25.0	30.0
KSH8040-R47M	0.47±20%	2.8	36.0	42	25.0	28.0
KSH8040-R56M	0.56±20%	3.2	23.0	26	22.0	24.0
KSH8040-R68M	0.68±20%	3.8	22.0	24	21.0	23.0
KSH8040-R82M	0.82±20%	4.4	19.0	21	19.0	21.0
KSH8040-1R0M	1.0±20%	4.62	17.0	19	17.0	19.0
KSH8040-1R5M	1.5±20%	7.6	15.0	17	15.0	17.0
KSH8040-1R8M	1.8±20%	11.0	13.5	15	12.5	15.0
KSH8040-2R2M	2.2±20%	11.4	12.0	14	12.0	14.0
KSH8040-3R3M	3.3±20%	15.0	11.0	12.5	10.0	12.0
KSH8040-4R7M	4.7±20%	26.5	10.5	11.5	8.5	9.5
KSH8040-5R6M	5.6±20%	30.0	10.0	11.0	8.0	9.0
KSH8040-6R8M	6.8±20%	36.8	8.0	9.0	7.0	8.0
KSH8040-8R2M	8.2±20%	46.0	7.7	8.7	6.0	7.0
KSH8040-100M	10±20%	59.0	7.0	8.0	5.5	6.5
KSH8040-150M	15±20%	71.0	4.9	5.5	4.8	5.4
KSH8040-220M	22±20%	113.0	4.5	5.0	4.2	4.8
KSH8040-330M	33±20%	156.0	3.3	3.5	3.0	3.5
KSH8040-470M	47±20%	225.0	2.9	3.1	2.5	2.9

### KSH1030M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1030-R22M	0.22±20%	1.2	44.24	50.00	29.20	33.00
KSH1030-R33M	0.33±20%	1.6	28.30	32.00	20.35	23.00
KSH1030-R36M	0.36±20%	1.6	24.80	28.00	20.35	23.00
KSH1030-R47M	0.47±20%	2.5	23.00	26.00	19.47	22.00
KSH1030-R82M	0.82±20%	3.7	20.35	23.00	15.93	18.00



KSH1030-1R0M	1.0±20%	6.0	18.58	21.00	13.27	15.00
KSH1030-1R5M	1.5±20%	7.5	17.69	20.00	11.50	13.00
KSH1030-2R2M	2.2±20%	9.0	12.38	14.00	9.73	11.00
KSH1030-3R3M	3.3±20%	16.0	10.61	12.00	7.96	9.00
KSH1030-4R7M	4.7±20%	22.5	8.84	10.00	6.19	7.00
KSH1030-8R2M	8.2±20%	45.0	6.20	7.00	4.42	5.00
KSH1030-100M	10±20%	55.0	5.75	6.50	3.98	4.50
KSH1030-330M	33±20%	160.0	3.53	4.00	2.30	2.60

## KSH1040M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	µH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1040-R13M	0.13±20%	0.52 (±5%)	63.00	92.00	63.00	72.00
KSH1040-R15M	0.15±20%	0.65	60.00	75.00	40.00	45.00
KSH1040-R19M	0.19±20%	0.95	80.00	90.00	35.00	40.00
KSH1040-R22M	0.22±20%	1	48.00	60.00	30.00	35.00
KSH1040-R30M	0.30±20%	1.1	36.00	45.00	30.00	35.00
KSH1040-R36M	0.36±20%	1.2	36.00	45.00	25.00	30.00
KSH1040-R45M	0.45±20%	1.5	34.00	43.00	25.00	30.00
KSH1040-R47M	0.47±20%	1.7	32.00	40.00	25.00	30.00
KSH1040-R56M	0.56±20%	1.8	26.40	33.00	20.00	25.00
KSH1040-R68M	0.68±20%	2.4	24.00	30.00	19.00	23.00
KSH1040-R80M	0.80±20%	2.7	23.20	29.00	19.00	23.00
KSH1040-1R0M	1.0±20%	3.3	22.40	28.00	16.00	19.00
KSH1040-1R5M	1.5±20%	4.2	19.20	24.00	14.00	16.00
KSH1040-2R2M	2.2±20%	7	13.20	16.50	10.00	12.00
KSH1040-3R3M	3.3±20%	11.8	12.80	16.00	9.50	11.00
KSH1040-4R7M	4.7±20%	20	10.40	13.00	7.50	9.00
KSH1040-6R8M	6.8±20%	25	9.60	12.00	7.00	8.50
KSH1040-8R2M	8.2±20%	27	7.20	9.00	6.80	8.00
KSH1040-100M	10±20%	30	6.80	8.50	6.90	7.80
KSH1040-150M	15±20%	45	5.60	7.00	5.60	6.50
KSH1040-220M	22±20%	66	4.40	5.50	4.20	5.00

## SPECIFICATIONS

### KSH1050M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1050-R22M	0.22±20%	0.8	57.5	65	32.5	37
KSH1050-R68M	0.68±20%	1.95	34	37	21	23
KSH1050-1R0M	1.0±20%	3.0	28.0	30	20.3	23
KSH1050-1R5M	1.5±20%	3.8	22.0	25	18.5	21
KSH1050-2R2M	2.2±20%	6.0	16.8	19	13.2	15
KSH1050-3R3M	3.3±20%	10	14.0	16	11.5	13
KSH1050-4R7M	4.7±20%	14	13.2	15	9.7	11
KSH1050-5R6M	5.6±20%	17	12.3	14	8.5	9.5
KSH1050-6R8M	6.8±20%	18.5	12.3	14	8.0	9.0
KSH1050-100M	10±20%	28	8.8	10	7.0	8.0
KSH1050-150M	15±20%	42	6.5	7.5	5.7	6.5
KSH1050-220M	22±20%	50	5.3	6.0	5.0	5.5
KSH1050-330M	33±20%	86	4.6	5.2	4.2	4.8
KSH1050-470M	47±20%	127	4.0	4.5	3.2	3.7
KSH1050-101M	100±20%	290	2.5	2.8	1.8	2.1

### KSH1340M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V		Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1340-R22M	0.22±20%	0.9	40.00	50.00	38.00	42.00
KSH1340-R47M	0.47±20%	2.0	38.40	48.00	29.00	33.00
KSH1340-R68M	0.68±20%	3.5	37.60	47.00	24.00	28.00
KSH1340-R82M	0.82±20%	4.5	32.00	40.00	24.00	28.00
KSH1340-1R0M	1.0±20%	7.5	28.00	35.00	20.00	24.00
KSH1340-1R5M	1.5±20%	9.5	24.40	30.50	17.00	20.00
KSH1340-2R2M	2.2±20%	11.5	20.80	26.00	15.00	18.00
KSH1340-3R3M	3.3±20%	13.0	16.80	21.00	13.00	15.00
KSH1340-4R7M	4.7±20%	14.5	14.40	18.00	11.00	13.00
KSH1340-6R8M	6.8±20%	20.0	11.20	14.00	8.00	9.00

KSH1340-100M	10±20%	25.0	8.00	10.00	7.00	8.00
KSH1340-150M	15±20%	39.0	6.00	7.50	5.80	6.50
KSH1340-220M	22±20%	51.0	4.80	6.00	3.80	4.50

## KSH1350M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	µH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1350-R22M	0.22±20%	0.7	60.00	75.00	45.00	50.00
KSH1350-R36M	0.36±20%	0.85	40.00	50.00	37.00	42.00
KSH1350-R50M	0.50±20%	1.15	38.40	48.00	33.00	38.00
KSH1350-R68M	0.68±20%	1.55	36.80	46.00	29.00	33.00
KSH1350-R82M	0.82±20%	1.67	31.20	39.00	26.00	30.00
KSH1350-1R0M	1.0±20%	2.2	28.00	35.00	22.00	26.00
KSH1350-1R5M	1.5±20%	3.2	26.40	33.00	19.00	23.00
KSH1350-2R2M	2.2±20%	5.0	19.20	24.00	13.00	15.00
KSH1350-3R3M	3.3±20%	7	17.60	22.00	12.00	14.00
KSH1350-4R7M	4.7±20%	9	16.00	20.00	11.00	13.00
KSH1350-6R8M	6.8±20%	18	12.80	16.00	10.00	12.00
KSH1350-100M	10±20%	22	9.60	12.00	8.00	9.00
KSH1350-150M	15±20%	30	8.00	10.00	7.00	8.00
KSH1350-220M	22±20%	58	5.20	6.50	3.80	4.50
KSH1350-330M	33±20%	84	4.80	6.00	2.80	3.50
KSH1350-470M	47±20%	130	4.00	5.00	2.60	3.00

## KSH1360M Series

Part Number	Inductance	DC Resistance	Saturation Current *3		Heat Rating Current*4	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	µH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1360-1R5M	1.5±20%	2.9	27	30	23	27
KSH1360-2R2M	2.2±20%	4.2	24	28	18	22
KSH1360-3R3M	3.3±20%	6.8	21	25	14	17
KSH1360-4R7M	4.7±20%	9	19.20	24.00	12.00	15.00
KSH1360-5R6M	5.6±20%	11	18.00	22.50	11.00	13.00
KSH1360-6R8M	6.8±20%	13.5	15.20	19.00	10.00	12.00
KSH1360-8R2M	8.2±20%	16	10.80	13.50	9.00	11.00

KSH1360-100M	10±20%	20.7	11.10	12.50	8.50	10.00
KSH1360-120M	12±20%	23	8.00	10.00	7.80	9.00
KSH1360-150M	15±20%	29	7.20	9.00	7.50	8.50
KSH1360-180M	18±20%	35	6.40	8.00	6.50	7.50
KSH1360-220M	22±20%	39.5	6.00	7.50	6.00	7.00
KSH1360-270M	27±20%	56	5.20	6.50	5.00	6.00
KSH1360-330M	33±20%	75	4.80	6.00	4.80	5.50
KSH1360-470M	47±20%	90	4.40	5.50	4.20	5.00
KSH1360-680M	68±20%	140	3.60	4.50	3.20	4.00
KSH1360-101M	100±20%	200	2.80	3.50	2.50	3.00
KSH1360-121M	120±20%	235	2.56	3.20	1.70	2.00
KSH1360-151M	150±20%	350	2.16	2.70	1.20	1.50

## KSH1365M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1365-4R7M	4.7±20%	8.5	-	24	-	16
KSH1365-5R6M	5.6±20%	10.5	-	22.5	-	14
KSH1365-6R8M	6.8±20%	12	-	19	-	13
KSH1365-8R2M	8.2±20%	14	-	16	-	12
KSH1365-100M	10±20%	16.5	-	15	-	11
KSH1365-150M	15±20%	26	-	11	-	9.5
KSH1365-220M	22±20%	36	-	9	-	8
KSH1365-330M	33±20%	65	-	8	-	6.5
KSH1365-470M	47±20%	70	-	6.8	-	5.5
KSH1365-680M	68±20%	120	-	5.2	-	4.8
KSH1365-820M	82±20%	135	-	4.5	-	4.0
KSH1365-101M	100±20%	170	-	4.0	-	3.5

## KSH1707M Series

Part Number	Inductance	DC Resistance	Saturation Current <sup>*3</sup>		Heat Rating Current <sup>*4</sup>	
	@100KHZ,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
KSH1707-2R2M	2.2±20%	2.5	-	34	-	29
KSH1707-3R3M	3.3±20%	3.95	-	30	-	24

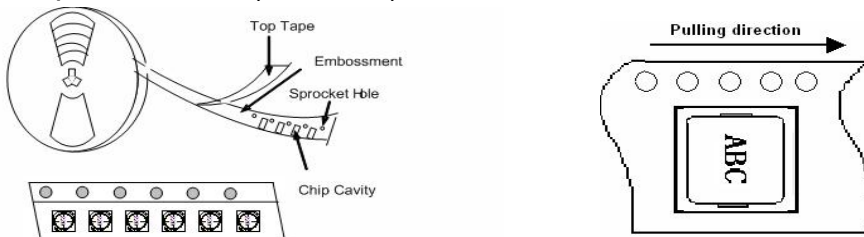
KSH1707-4R7M	4.7±20%	4.75	-	24	-	21
KSH1707-6R8M	6.8±20%	7.5	-	22	-	17
KSH1707-8R2M	8.2±20%	8.7	-	20	-	13
KSH1707-100M	10±20%	9.9	-	19	-	12
KSH1707-150M	15±20%	17	-	14.5	-	11
KSH1707-220M	22±20%	23	-	11.5	-	8.5
KSH1707-330M	33±20%	37	-	10	-	8.0
KSH1707-470M	47±20%	47	-	7.5	-	6.0
KSH1707-680M	68±20%	85	-	6.5	-	5.2
KSH1707-101M	100±20%	130	-	5.0	-	3.7

### Notes:

- All test data is referenced to 20°C ambient;
- Rated current: Isat or Irms, whichever is smaller;
- Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;
- Isat(Max): DC current at which the inductance drops approximate 20% from its value without current;
- Irms(Typ): DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 20°C ambient;
- Irms(Max): DC current that causes the temperature rise ( $\Delta T = 20^\circ\text{C}$ ) from 20°C ambient. Absolute maximum voltage 30VDC

## PACKAGING INFORMATION

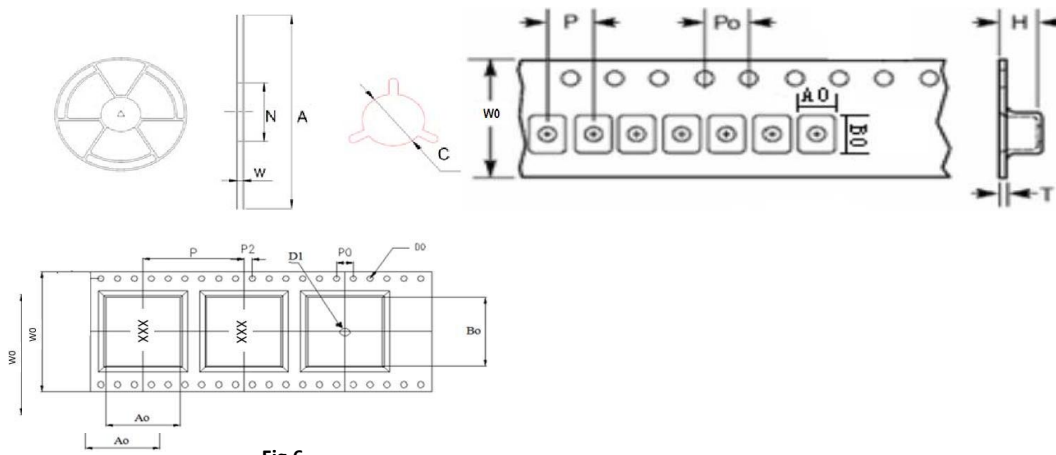
### ■ Tape Dimension(Unit: mm)



Remark: The sprocket holes are to the right as the tape is pulled toward the user.

Remark: (KSH4012- KSH1365)- Fig.6.1-1/2

### ■ Reel and Taping Dimensions (Unit: mm)



## PACKAGING INFORMATION

### ■ Reel and Taping Dimensions (Unit: mm)

Type	Reel dimensions (mm)				Tape dimensions (mm)						
	A	N	C	W	W0	P	P0	H	T	A0	B0
KSH4012	330±2.0	100±2.0	13±1.0	12.4±2.0	12±0.3	8±0.1	4±0.1	1.5±0.05	0.30±0.05	4.4±0.1	4.9±0.1
KSH4020	330±2.0	100±2.0	13±1.0	12.4±2.0	12±0.3	8±0.1	4±0.1	2.3±0.05	0.35±0.05	4.4±0.1	4.9±0.1
KSH5020	330±2.0	100±2.0	13±1.0	12.4±2.0	12±0.3	8±0.1	4±0.1	2.1±0.05	0.35±0.05	5.4±0.1	5.9±0.1
KSH5030	330±2.0	100±2.0	13±1.0	12.4±2.0	12±0.3	8±0.1	4±0.1	3.3±0.05	0.35±0.05	5.4±0.1	5.9±0.1
KSH7018	330±2.0	100±2.0	13±1.0	16.4±2.0	16±0.3	12±0.1	4±0.1	2.1±0.05	0.35±0.05	6.9±0.1	7.5±0.1
KSH7020	330±2.0	100±2.0	13±1.0	16.4±2.0	16±0.3	12±0.1	4±0.1	2.2±0.1	0.35±0.05	6.9±0.1	7.5±0.1
KSH7024	330±2.0	100±2.0	13±1.0	16.4±2.0	16±0.3	12±0.1	4±0.1	2.7±0.05	0.35±0.05	6.9±0.1	7.5±0.1
KSH7030	330±2.0	100±2.0	13±1.0	16.4±2.0	16±0.3	12±0.1	4±0.1	3.3±0.05	0.35±0.05	6.9±0.1	7.5±0.1
KSH7040	330±2.0	97±0.5	13.2±0.2	16.8±2.0	16±0.3	12±0.1	4±0.1	4.2±0.10	0.35±0.05	6.9±0.1	7.5±0.1
KSH7050	330±2.0	100±2.0	13±1.0	16.4±2.0	16±0.3	12±0.1	4±0.1	5.2±0.10	0.4±0.05	6.9±0.1	7.5±0.1
KSH8040	330±2.0	97±0.5	13.2±0.2	24.4±2.0	24±0.3	16±0.1	4±0.1	4.4±0.10	0.35±0.05	8.9±0.1	10.1±0.1
KSH1030	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	3.3±0.10	0.35±0.05	10.4±0.1	11.6±0.1
KSH1040	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	4.3±0.10	0.35±0.05	10.4±0.1	11.5±0.1
KSH1340	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	4.3±0.10	0.5±0.05	13.4±0.1	14.4±0.1
KSH1050	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	5.4±0.10	0.5±0.05	10.4±0.1	11.6±0.1
KSH1350	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	5.3±0.10	0.5±0.05	13.2±0.1	14.4±0.1
KSH1360	330±2.0	100±2.0	13±1.0	24.4±2.0	24±0.3	16±0.1	4±0.1	6.3±0.10	0.5±0.05	13.2±0.1	14.4±0.1
KSH1365	330±2.0	97±0.5	13±0.2	24.0±0.5	24±0.3	16±0.1	4±0.1	6.8±0.10	0.5±0.05	13.1±0.1	14.0±0.1
KSH1707	330±2.0	97±0.5	13±0.2	24.4±2.0	32±0.3	24±0.1	4±0.1	7.3±0.10	0.5±0.05	17.5±0.1	18.1±0.1

## PACKAGING INFORMATION

### ■ Packaging Quantity

Type	Standard Quantity (pcs/reel)	Type	Standard Quantity (pcs/reel)
KSH4012	3000	KSH7030	1500
KSH4020	3000	KSH7040	1000
KSH5020	2000	KSH7050	1000
KSH5030	2000	KSH1040	500
KSH7018	1500	KSH1340	500
KSH7020	1500	KSH1350	500
KSH7024	1500	KSH1360	500
KSH1365	500	KSH1707	200
KSH1030	800	KSH1050	500
KSH8040	800		