

# SPECIFICATION OF BS□□□□CDSU SERIES

## FEATURES

1. To be high saturation for surface mounting type inductors.
2. Low cost feature.



## APPLICATIONS

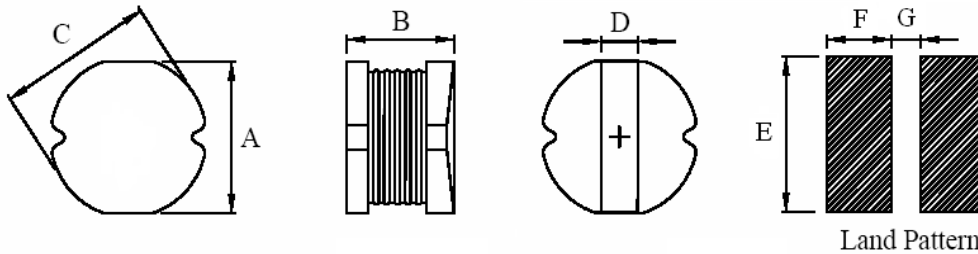
VTR , QA equipment , LCD television set , notebook PC , portable communication equipments , DC to DC converters , etc.



## ORDERING CODE

BS1005CDSU   100   M   T  
 (1)            (2)   (3)   (4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE ( K : ±10%, M : ±20% )
- (4) REEL TAPING



## SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A ±0.3	B	C ±0.3	D Typ.	E	F	G
BS0302CDSU	3.0	2.3(max)	3.5	1.2	3.5	1.60	0.8
BS0403CDSU	4.0	3.2±0.3	4.5	1.5	4.5	2.10	0.8
BS0502CDSU	5.2	2.5±0.3	5.8	2.0	5.5	2.25	1.5
BS0503CDSU	5.2	3.0±0.3	5.8	2.0	5.5	2.25	1.5
BS0504CDSU	5.2	4.5±0.3	5.8	2.0	5.5	2.25	1.5
BS0703CDSU	7.0	3.5±0.3	7.8	2.5	7.5	3.05	1.9
BS0705CDSU	7.0	5.0±0.3	7.8	2.5	7.5	3.05	1.9
BS1004CDSU	9.0	4.0±0.3	10.0	2.9	9.5	3.65	2.5
BS1005CDSU	9.0	5.4±0.3	10.0	2.9	9.5	3.65	2.5

※All the data listed in this catalogue are for reference only, King Core reserves the right to alter or revise the specifications without prior notification.

# SMD POWER INDUCTORS → BS1005CDSU SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance ( $\Omega$ )max	Isat (A)max
BS1005CDSU100KT	10.0	2.52M	0.060	2.60
BS1005CDSU120KT	12.0	2.52M	0.070	2.45
BS1005CDSU150KT	15.0	2.52M	0.080	2.27
BS1005CDSU180KT	18.0	2.52M	0.090	2.15
BS1005CDSU220KT	22.0	2.52M	0.100	1.95
BS1005CDSU270KT	27.0	2.52M	0.110	1.76
BS1005CDSU330KT	33.0	2.52M	0.120	1.50
BS1005CDSU390KT	39.0	2.52M	0.140	1.37
BS1005CDSU470KT	47.0	2.52M	0.170	1.28
BS1005CDSU560KT	56.0	2.52M	0.190	1.17
BS1005CDSU680KT	68.0	2.52M	0.220	1.11
BS1005CDSU820KT	82.0	2.52M	0.250	1.00
BS1005CDSU101KT	100.0	1K	0.350	0.97
BS1005CDSU121KT	120.0	1K	0.400	0.89
BS1005CDSU151KT	150.0	1K	0.470	0.78
BS1005CDSU181KT	180.0	1K	0.630	0.72
BS1005CDSU221KT	220.0	1K	0.730	0.66
BS1005CDSU271KT	270.0	1K	0.970	0.57
BS1005CDSU331KT	330.0	1K	1.150	0.52
BS1005CDSU391KT	390.0	1K	1.300	0.48
BS1005CDSU471KT	470.0	1K	1.480	0.42
BS1005CDSU561KT	560.0	1K	1.900	0.33
BS1005CDSU681KT	680.0	1K	2.250	0.28
BS1005CDSU821KT	820.0	1K	2.550	0.24
BS1005CDSU102KT	1000.0	1K	3.000	0.20

Test Freq.: 10 ~ 82 $\mu$ H (2.52MHz) , 100 ~ 1000 $\mu$ H (1KHz / 0.25V)

Tolerance: K $\pm$ 10%,M $\pm$ 20%

※Isat:Based on Inductance decrease 10%

※Operating temperature range : -40°C ~ +125°C (including self-heating)

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