

## POWER CHOKES SHIELDED

### Series DC - S

#### FEATURES

- ◆ Magnetically shielded with stand-off is incorporated to core body.
- ◆ Rugged reliability and performance fixed inductor.
- ◆ The products contain no lead and also support lead-free soldering.

#### APPLICATIONS

- ◆ Excellent as DC-DC converter boost or buck inductors . Also used for noise filtering applications.

#### PRODUCT IDENTIFICATION

**DC**   **07**   **S**   **08**   **Z**   **L**   **22U**  
**a**   **b**   **c**   **d**   **e**   **f**   **g**

- a : Type of products - Power Chokes with Lead  
 b : Height (mm) - 07 = 7.5±0.5 08 = 8.0±0.5 10 = 10±0.5  
 c : Materials - Shielded  
 d : Diameter (mm) - 08 = 7.8±0.5 10 = 10±0.5  
 e : Packing (PCS / Box) - Z = 50  
 f : Tolerance - K = ±10% L : ±15% M : ±20%  
 g : Inductance - 10U = 10μH 22U = 220μH 1M = 1000μH

#### SHAPES & DIMENSIONS

Figure.A

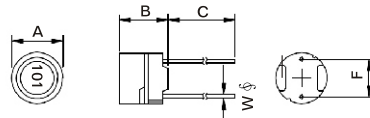
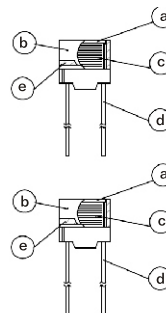
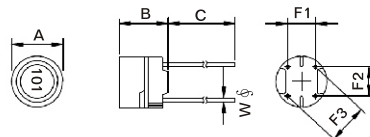


Figure.B



Item	Material
a.Core	Ferrite DR Core
b.Core	Ferrite RI Core(RC-S Series)
c.Wire	Enamelled Copper Wire 130°C
d.Lead	Tinned Copper Wire
e.Adhesive	Epoxy Resin

Type	A	B	C	F	WΦ	F1	F2	F3	Figure
DC07S08	7.8±0.5	7.5±0.5	15.0±0.3	5.0±0.5	0.65±0.05	-	-	-	A
DC08S10	10.0±0.5	8.0±0.5	15.0±0.3	-	0.65±0.05	4.0±0.3	5.0±0.3	6.4±0.3	B
DC10S10	10.0±0.5	10.0±0.5	15.0±0.3	-	0.65±0.05	4.0±0.3	5.0±0.3	6.4±0.3	B

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### ELECTRICAL CHARACTERISTICS

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ )	IDC (A) max.
DC07S07ZL22U	22 $\pm$ 15%	1V/2.52M	0.080	1.60
DC07S07ZL27U	27 $\pm$ 15%	1V/2.52M	0.100	1.40
DC07S07ZL33U	33 $\pm$ 15%	1V/2.52M	0.140	1.30
DC07S07ZL39U	39 $\pm$ 15%	1V/2.52M	0.150	1.20
DC07S07ZL47U	47 $\pm$ 15%	1V/2.52M	0.170	1.10
DC07S07ZK56U	56 $\pm$ 10%	1V/2.52M	0.190	0.99
DC07S07ZK68U	68 $\pm$ 10%	1V/2.52M	0.210	0.89
DC07S07ZK82U	82 $\pm$ 10%	1V/2.52M	0.270	0.81
DC07S07ZK100U	100 $\pm$ 10%	1V/1K	0.320	0.74
DC07S07ZK120U	120 $\pm$ 10%	1V/1K	0.360	0.67
DC07S07ZK150U	150 $\pm$ 10%	1V/1K	0.510	0.60
DC07S07ZK180U	180 $\pm$ 10%	1V/1K	0.570	0.55
DC07S07ZK220U	220 $\pm$ 10%	1V/1K	0.760	0.50
DC07S07ZK270U	270 $\pm$ 10%	1V/1K	0.860	0.45
DC07S07ZK330U	330 $\pm$ 10%	1V/1K	0.970	0.41
DC07S07ZK390U	390 $\pm$ 10%	1V/1K	1.280	0.37
DC07S07ZK470U	470 $\pm$ 10%	1V/1K	1.440	0.34
DC07S07ZK560U	560 $\pm$ 10%	1V/1K	1.610	0.31
DC07S07ZK680U	680 $\pm$ 10%	1V/1K	2.070	0.28
DC07S07ZK820U	820 $\pm$ 10%	1V/1K	2.330	0.26
DC07S07ZK1M	1000 $\pm$ 10%	1V/1K	2.720	0.23
DC08S10ZM10U	10 $\pm$ 20%	1V/2.52M	0.050	2.80
DC08S10ZM12U	12 $\pm$ 20%	1V/2.52M	0.060	2.50
DC08S10ZM15U	15 $\pm$ 20%	1V/2.52M	0.070	2.30
DC08S10ZM18U	18 $\pm$ 20%	1V/2.52M	0.080	2.10
DC08S10ZM22U	22 $\pm$ 20%	1V/2.52M	0.090	2.00
DC08S10ZM27U	27 $\pm$ 20%	1V/2.52M	0.100	1.76
DC08S10ZM330U	33 $\pm$ 20%	1V/2.52M	0.110	1.60
DC08S10ZM39U	39 $\pm$ 20%	1V/2.52M	0.120	1.38
DC08S10ZM47U	47 $\pm$ 20%	1V/2.52M	0.140	1.28
DC08S10ZK56U	56 $\pm$ 10%	1V/2.52M	0.150	1.20
DC08S10ZK68U	68 $\pm$ 10%	1V/2.52M	0.160	1.00
DC08S10ZK82U	82 $\pm$ 10%	1V/2.52M	0.180	0.96
DC08S10ZK100U	100 $\pm$ 10%	1V/1K	0.200	0.92
DC08S10ZK120U	120 $\pm$ 10%	1V/1K	0.240	0.80
DC08S10ZK150U	150 $\pm$ 10%	1V/1K	0.350	0.73
DC08S10ZK180U	180 $\pm$ 10%	1V/1K	0.400	0.64
DC08S10ZK220U	220 $\pm$ 10%	1V/1K	0.540	0.61
DC08S10ZK270U	270 $\pm$ 10%	1V/1K	0.760	0.56
DC08S10ZK330U	330 $\pm$ 10%	1V/1K	0.860	0.50

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Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ )	IDC (A) max.
DC08S10ZK390U	390 $\pm$ 10%	1V/1K	0.930	0.44
DC08S10ZK470U	470 $\pm$ 10%	1V/1K	1.230	0.41
DC08S10ZK560U	560 $\pm$ 10%	1V/1K	1.340	0.38
DC08S10ZK680U	680 $\pm$ 10%	1V/1K	1.530	0.34
DC08S10ZK820U	820 $\pm$ 10%	1V/1K	2.100	0.32
DC08S10ZK1M	1000 $\pm$ 10%	1V/1K	2.300	0.28
DC10S10ZM10U	10 $\pm$ 20%	1V/2.52M	0.023	3.51
DC10S10ZM12U	12 $\pm$ 20%	1V/2.52M	0.024	3.24
DC10S10ZM15U	15 $\pm$ 20%	1V/2.52M	0.036	2.88
DC10S10ZM18U	18 $\pm$ 20%	1V/2.52M	0.039	2.61
DC10S10ZM22U	22 $\pm$ 20%	1V/2.52M	0.042	2.34
DC10S10ZM27U	27 $\pm$ 20%	1V/2.52M	0.045	2.16
DC10S10ZM33U	33 $\pm$ 20%	1V/2.52M	0.057	1.89
DC10S10ZM39U	39 $\pm$ 20%	1V/2.52M	0.076	1.80
DC10S10ZM47U	47 $\pm$ 20%	1V/2.52M	0.100	1.62
DC10S10ZK56U	56 $\pm$ 10%	1V/2.52M	0.110	1.44
DC10S10ZK68U	68 $\pm$ 10%	1V/2.52M	0.150	1.35
DC10S10ZK82U	82 $\pm$ 10%	1V/2.52M	0.160	1.26
DC10S10ZK100U	100 $\pm$ 10%	1V/1K	0.190	1.08
DC10S10ZK120U	120 $\pm$ 10%	1V/1K	0.210	0.99
DC10S10ZK150U	150 $\pm$ 10%	1V/1K	0.230	0.90
DC10S10ZK180U	180 $\pm$ 10%	1V/1K	0.260	0.82
DC10S10ZK220U	220 $\pm$ 10%	1V/1K	0.290	0.74
DC10S10ZK270U	270 $\pm$ 10%	1V/1K	0.360	0.67
DC10S10ZK330U	330 $\pm$ 10%	1V/1K	0.510	0.61
DC10S10ZK390U	390 $\pm$ 10%	1V/1K	0.690	0.55
DC10S10ZK470U	470 $\pm$ 10%	1V/1K	0.980	0.51
DC10S10ZK560U	560 $\pm$ 10%	1V/1K	1.100	0.46
DC10S10ZK680U	680 $\pm$ 10%	1V/1K	1.200	0.42
DC10S10ZK820U	820 $\pm$ 10%	1V/1K	1.300	0.38
DC10S10ZK1M	1000 $\pm$ 10%	1V/1K	1.500	0.35