

# SHIELDED DIP POWER INDUCTOR



7.5 x  $\phi$ 7.8 mm

**AISR-875**

RoHS/RoHS II Compliant

## FEATURES:

- Current rating up to 2.9A
- Wide inductance range from 10 $\mu$ H to 10000 $\mu$ H
- Shielded Construction

## APPLICATIONS:

- DC/DC converters
- Power supplies
- Desktop and notebooks
- Band pass filters and output chokes

## ELECTRICAL SPECIFICATIONS:

Abracon P/N:	AISR-875
Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C

Part No. AISR-875- Inductance Code	L( $\mu$ H)	Tolerance	L Test Freq.	DCR( $\Omega$ )	I <sub>DC</sub> (mA)
		(%)	(MHz)	(max)	(max)
AISR-875-100	10	M	2.52	0.05	2900
AISR-875-120	12	M	2.52	0.06	2500
AISR-875-150	15	M	2.52	0.07	2200
AISR-875-180	18	M	2.52	0.08	1900
AISR-875-220	22	M	2.52	0.09	1800
AISR-875-270	27	M	2.52	0.11	1700
AISR-875-330	33	M	2.52	0.13	1500
AISR-875-390	39	M	2.52	0.14	1300
AISR-875-470	47	M	2.52	0.15	1300
AISR-875-560	56	M	2.52	0.18	1200
AISR-875-680	68	M	2.52	0.20	1100
AISR-875-820	82	M	2.52	0.24	1000
AISR-875-101	100	L	0.001	0.28	890
AISR-875-121	120	L	0.001	0.36	810
AISR-875-151	150	L	0.001	0.42	720
AISR-875-181	180	L	0.001	0.57	660
AISR-875-221	220	L	0.001	0.63	570
AISR-875-271	270	L	0.001	0.88	510
AISR-875-331	330	L	0.001	1.05	460
AISR-875-391	390	L	0.001	1.17	440
AISR-875-471	470	L	0.001	1.34	410
AISR-875-561	560	L	0.001	1.72	360
AISR-875-681	680	L	0.001	1.96	330
AISR-875-821	820	L	0.001	2.56	300
AISR-875-102	1000	K	0.001	2.94	270
AISR-875-122	1200	K	0.001	4.04	240
AISR-875-152	1500	K	0.001	4.70	220
AISR-875-182	1800	K	0.001	5.05	200
AISR-875-222	2200	K	0.001	6.25	180
AISR-875-272	2700	K	0.001	8.72	160
AISR-875-332	3300	K	0.001	10.6	150
AISR-875-392	3900	K	0.001	14.2	140
AISR-875-472	4700	K	0.001	16.7	120
AISR-875-562	5600	K	0.001	18.7	110
AISR-875-682	6800	K	0.001	21.8	100
AISR-875-822	8200	K	0.001	28.7	93
AISR-875-103	10000	K	0.001	33.0	84

### Test Conditions:

Inductance (L): HP4342A, 2.52MHz for 10 $\mu$ H~82 $\mu$ H; CH-100 LCR meter, 1KHz for 100 $\mu$ H~10mH

Direct Current Resistance (DCR): CH-301 current source & DCR meter

Saturation Current (Isat): CH-301 current source & DCR meter

Isat: Based on the inductance change within 10% of initial value

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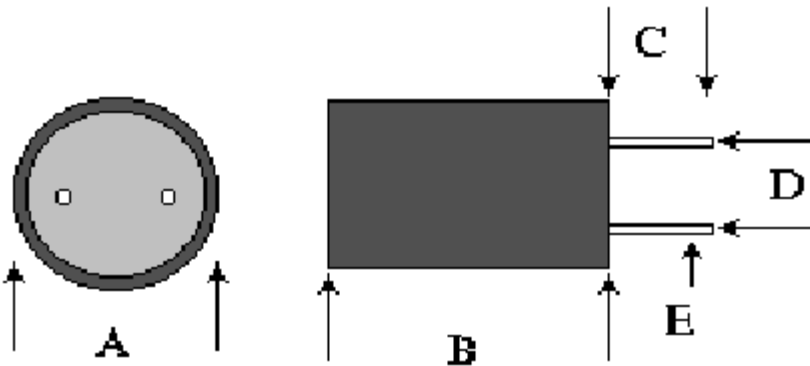
## OPTIONS AND PART IDENTIFICATION

AISR-875-

Packing (Bulk: 500pcs / Tray)

Inductance Code	Tolerance
Please refer to the table above	M: $\pm 20\%$
	L: $\pm 15\%$
	K: $\pm 10\%$

## OUTLINE DIMENSIONS:



A	7.8 $\pm$ 0.5
B	7.5 max
C	5.0 $\pm$ 1.0
D	5.0 $\pm$ 0.3
E	0.7 $\pm$ 0.1/-0.05

Dimension: mm

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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