

SHIELDED LOW DCR HIGH CURRENT POWER INDUCTOR

ASVC



Size varies

FEATURES:

- Shielded construction, auto machine assembly
- High saturation point and high current
- High frequency up to 1.0 MHz
- Auto machine winding to low DC resistance
- All lead-free (ROHS - no Pb)

APPLICATIONS:

- PC servers and computer motherboards
- DC/DC converter in distributed power systems
- Different core materials for a variety of applications

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	ASVC Series
Operating temperature:	-40°C to + 125°C
Storage temperature:	-40°C to + 125°C, 70% RH max.
Test Condition:	1.0V/100KHz
RI Core Material:	P:Iron Core, T: Iron +Mn-Zn dual materials, C: Iron core with cover

Electrical Characteristics / ASVC-1310P

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-1310-R47	0.47	0.90	50000	40000
ASVC-1310-R60	0.60	0.90	50000	40000
ASVC-1310-R80	0.80	0.90	50000	39000
ASVC-1310-1R0	1.00	1.40	45000	34000
ASVC-1310-1R5	1.50	2.30	42000	31000
ASVC-1310-2R0	2.00	3.50	35000	24000
ASVC-1310-2R4	2.40	3.50	25000	20000
ASVC-1310-3R3	3.30	5.00	22000	18000

Electrical Characteristics / ASVC-1108P

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-1108-R47	0.47	0.95	50000	38000
ASVC-1108-R60	0.60	0.95	50000	38000
ASVC-1108-R80	0.80	1.60	45000	33000
ASVC-1108-1R0	1.00	1.60	35000	32000
ASVC-1108-1R5	1.50	2.20	25000	31000
ASVC-1108-2R0	2.00	4.00	30000	21000

Electrical Characteristics / ASVC-1108C

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-1108C-R47	0.47	0.95	50000	43000
ASVC-1108C-R60	0.60	0.95	50000	43000
ASVC-1108C-R80	0.80	1.60	45000	38000
ASVC-1108C-1R0	1.00	1.60	35000	36000
ASVC-1108C-1R5	1.50	2.20	25000	34000
ASVC-1108C-2R0	2.00	4.00	30000	26000

Electrical Characteristics / ASVC-1108T

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-1108T-R25	0.25	0.80	50000	48000
ASVC-1108T-R35	0.35	0.80	40000	48000

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RoHS
Compliant



Size varies

Electrical Characteristics / ASVC-0806P

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-0806-R47	0.47	2.30	40000	28000
ASVC-0806-R60	0.60	2.30	35000	28000
ASVC-0806-R80	0.80	3.50	27000	22000
ASVC-0806-1R0	1.00	5.20	22000	18000

Electrical Characteristics / ASVC-0806C

Part Number	L (μH)*	DCR (mΩ) max. @25°C	IDC (A) typ.**	I-sat(A) max.***
ASVC-0806C-R56	0.56	2.30	23000	25000
ASVC-0806C-R68	0.68	2.30	21000	20000
ASVC-0806C-R82	0.82	3.50	17000	17000
ASVC-0806C-1R2	1.20	5.20	17000	21000

Note:
 (*) L Test parameters: 100KHz, 1.0Vrms, 0Adc.
 (**) Idc: Heating current that will cause an approximate ΔT of 40°C without core loss; please contact our sales department for details
 (***) I-sat : saturation current that will cause L approximately 20% rolloff with 25°C ambient
 P, C, T means core material code

OPTIONS AND PART IDENTIFICATION:

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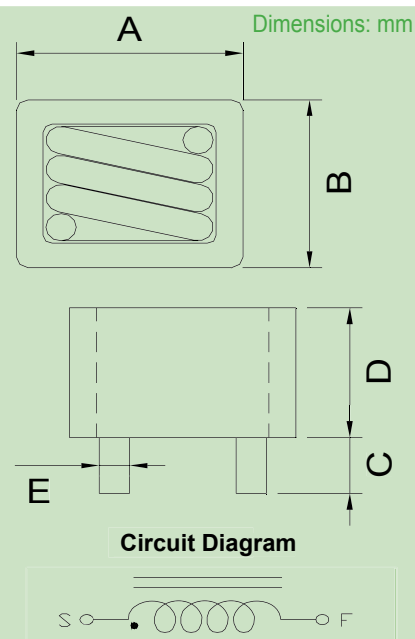
ASVC - □□□□ - □□□ □

Series	Dimension (max.)
0806P	8.2x8.2x6.0mm
0806C	8.2x8.2x7.0mm
1108P	11.7x11.7x8.5mm
1108C	11.7x11.7x9.5mm
1108T	11.7x9.7x8.5mm
1310P	13.5x12.5x10.0mm

Inductance Code
 Please refer to the Tables above.

Inductance Tolerance	
J	±5%
K	±10%
M	±20%

OUTLINE DRAWING:



Series	A (max)	B (max)	C	D (max)	E
ASVC-1310P	0.531 (13.5)	0.492 (12.5)	0.138 ± 0.020 (3.5 ± 0.5)	0.394 (10)	Φ0.04~Φ0.07 (Φ1.0~Φ1.7)
ASVC-1108P	0.461 (11.7)	0.461 (11.7)	0.138 ± 0.020 (3.5 ± 0.5)	0.335 (8.5)	Φ0.03~Φ0.06 (Φ0.8~Φ1.5)
ASVC-1108C	0.461 (11.7)	0.461 (11.7)	0.138 ± 0.020 (3.5 ± 0.5)	0.374 (9.5)	Φ0.03~Φ0.06 (Φ0.8~Φ1.5)
ASVC-1108T	0.461 (11.7)	0.461 (9.7)	0.138 ± 0.020 (3.5 ± 0.5)	0.335 (8.5)	Φ0.055 (Φ1.4)
ASVC-0806P	0.323 (8.2)	0.323 (8.2)	0.138 ± 0.020 (3.5 ± 0.5)	0.236 (6.0)	Φ0.03~Φ0.04 (Φ0.7~Φ0.9)
ASVC-0806C	0.323 (8.2)	0.323 (8.2)	0.138 ± 0.020 (3.5 ± 0.5)	0.276 (7.0)	Φ0.03~Φ0.04 (Φ0.7~Φ0.9)

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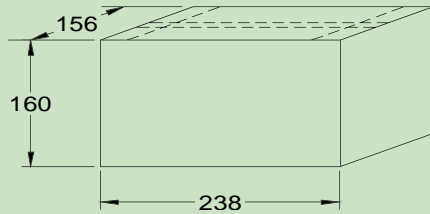
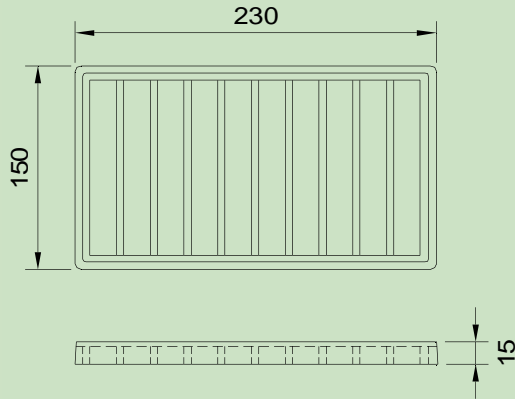


RoHS
Compliant

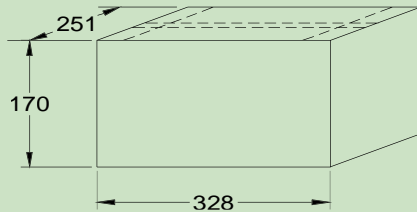


Size varies

PACKING: QUANTITY = 100PCS/PVC; PVC CASE = 230*150*15m/m



INBOX SIZE: 238*156*160m/m
QUANTITY: 8PVC CASE/BOX



OUTBOX SIZE: 320*251*170m/m
QUANTITY: 2 INBOX/OUTBOX

Storage

1. Temperature and humidity conditions: Less than 40°C and 70% RH.
2. Recommended products should be used within 6 months from the time of delivery.
3. The packaging material should be kept where no chlorine or sulfur exists in the air.

Storage

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.