

ECN/PCN No.: M1626

For Manufacturer

Product Description: Common Mode Line Filter	Abrakon Part Number / Part Series: ALFT-02(02A), ALFT-04, ALFT-09V, ALFT-16	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> Series <input type="checkbox"/> ECN <input type="checkbox"/> Part Number(s) <input checked="" type="checkbox"/> EOL
Affected Revision: Multiple	New Revision: EOL	Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
Prior to Change: Lifecycle status = Active		
After Change: Lifecycle status = EOL		
Cause/Reason for Change: As part of an effort to streamline our portfolio and better serve customers, we are discontinuing select products and offering an extended Last Time Buy period		

Change Plan

Effective Date: 10/7/2025	Additional Remarks:	
Change Declaration: Abrakon products listed in this notice have been discontinued and are not recommended for new designs.		
Issued Date: 7/9/2025	Issued By: <i>Gerald Capwell</i>	Issued Department: Engineering
Approval: <i>Syed Raza</i> Engineering VP	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director

For Abrakon EOL only

Last Time Buy (if applicable): 12/31/2025	Alternate Part Number / Part Series:
Additional Approval:	Additional Approval:

Customer Approval (If Applicable)

Qualification Status: <div style="text-align: center;"> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted </div> <p><i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i></p>		
Customer Part Number:	Customer Project:	
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

Thru-Hole Common Mode Choke

ALFT-02A



RoHS
Compliant



18.6 x 20.6 x 13.0mm

ELECTRICAL SPECIFICATIONS:

Abracon P/N: **ALFT-02 A**

Part Number	Lp (mH) Min	DCR Max (Ω)	I _{AC} Max (A)
ALFT-02- ALFT-02A-	1-5/2-6		
1	0.4	0.06	2.6
2	1.0	0.10	2.0
3	3.4	0.17	1.5
4	6.8	0.28	1.2
5	10	0.55	0.7
6	16	0.85	0.5
7	28	1.85	0.4
8	39	1.90	0.4

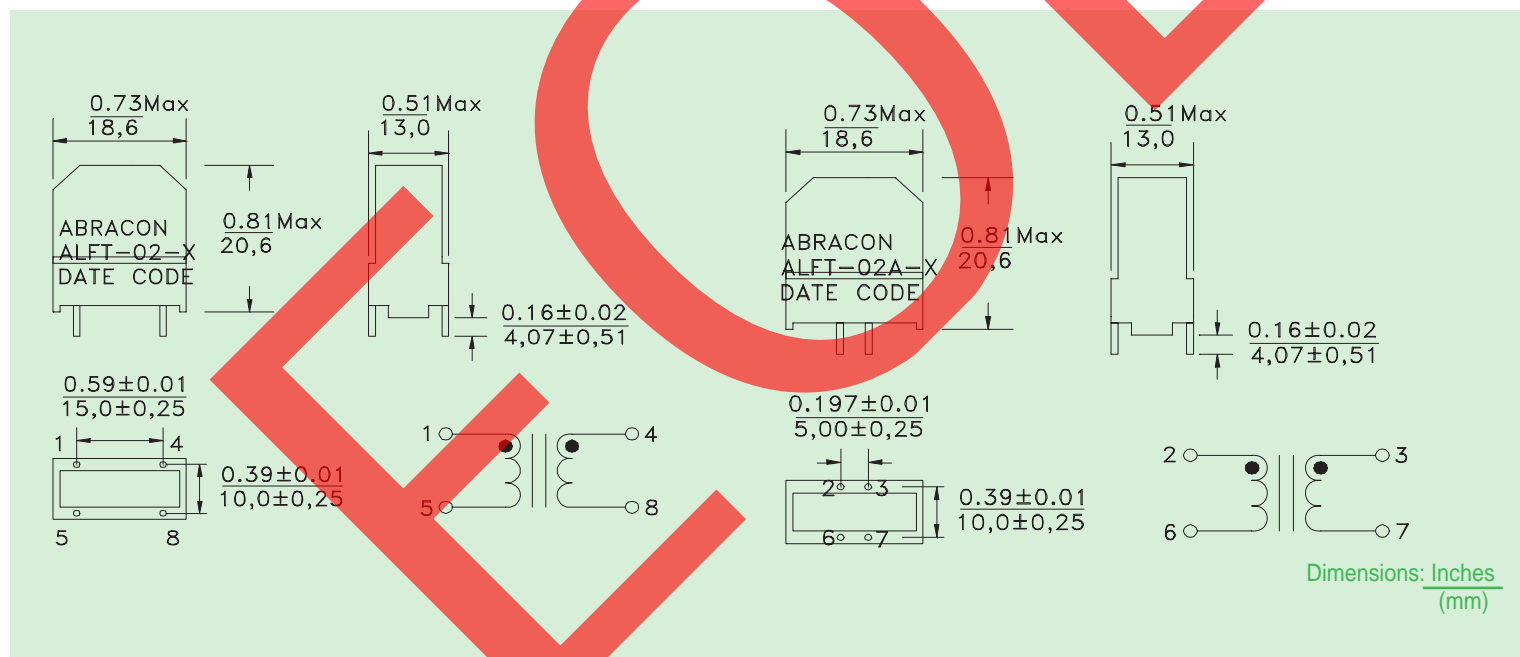
NOTE

Lp measure at 1KHz 0.1V_{RMS}

Turns Ratio: 1:1 ± 2%

Hipot: 1500 V_{RMS} Min

OUTLINE DRAWING:

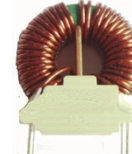


Common Mode Line Filter

ALFT-04



RoHS/RoHS II compliant



16.30 x 30.48 x 31.80mm

FEATURES:

- Presents High Common Mode Impedance
- Enables significant noise suppression at high frequency

APPLICATIONS:

- Filtering common mode noise in USB, IEEE1394, LVDS, Digital Camera, Scanner.
- Digital audio and video equipments such as PDA, DSC, DVC, DVD Player.

ELECTRICAL SPECIFICATIONS:

Operating Temperature

-25°C to +85°C

Storage Temperature

-25°C to +85°C

Part Number	L (mH) ± 20%	DCR Max (mΩ)	I _{rate} Max (A)	Max. Lead Diameter (±0.005")
ALFT-04-1	0.24	5.0	6.0	0.0511
ALFT-04-2	0.35	6.0	6.0	0.0511
ALFT-04-3	0.50	7.0	6.0	0.0511
ALFT-04-4	1.00	10.0	4.0	0.0405
ALFT-04-5	2.00	13.0	4.0	0.0405
ALFT-04-6	3.00	16.0	3.7	0.0405
ALFT-04-7	4.50	20.0	3.7	0.0405
ALFT-04-8	7.00	30.0	3.5	0.0405
ALFT-04-9	10.00	40.0	3.0	0.0405
ALFT-04-10	0.12	4.5	6.0	0.0511

Turns Ratio: 1:1 ± 2%

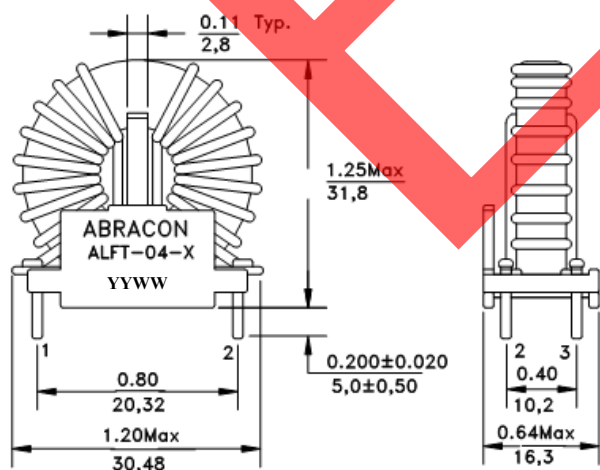
Hipot: 2000V_{RMS}

I_{rate}: Based on temperature rise (ΔT: 40°C max)

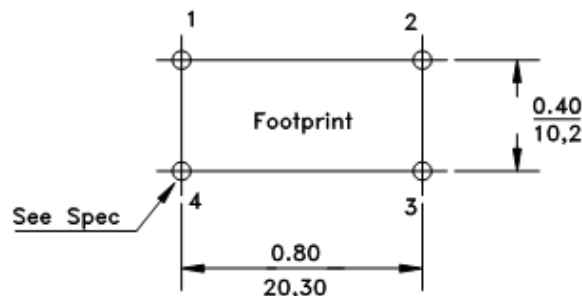
Test Conditions

Test Freq for L: 1KHz, 0.1Vrms

OUTLINE DRAWING:



Recommended Land Pattern



Dimensions: mm

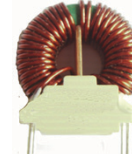


Common Mode Line Filter

ALFT-04



RoHS/RoHS II compliant

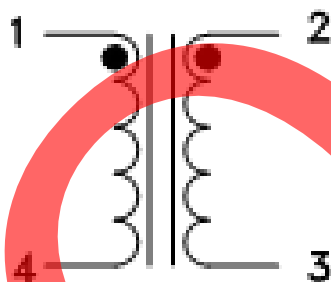


16.30 x 30.48 x 31.80mm

MATERIALS

Part Name	UL file Number	Supplier
Magnet Wire	E234565	Dezgou Feilong Electrical Material Co.
Epoxy	E218090	DONGGUAN CITY HUMEN EATTO INSULATION MATERIAL FACTORY
Epoxy	E105888	SHAW HUOW ENTERPRISE CO LTD
Base	E59481(S)	CHANG CHUN PLASTICS CO. LTD

SCHEMATICS



Packing

100pcs/Box

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Revised: 03.12.14

Common Mode Line Filter

ALFT-09V



RoHS/RoHS II Compliant



16.5 x 11.5 x 17.0mm

FEATURES:

- Presents High Common Mode Impedance
- Enables significant noise suppression at high frequency

APPLICATIONS:

- Filtering common mode noise in USB, IEEE1394, LVDS, Digital Camera, Scanner.
- Digital audio and video equipments such as PDA, DSC, DVC, DVD Player.

ELECTRICAL SPECIFICATIONS:

Part Number ALFT-09V-Inductance Code	L (mH) min.	DCR Max (Ω)	I _r (A _{rms})
ALFT-09V-501	0.5	0.2	1.4
ALFT-09V-102	1.0	0.4	1.0
ALFT-09V-202	2.0	0.8	0.7
ALFT-09V-502	5.0	1.6	0.5
ALFT-09V-802	8.0	2.5	0.4
ALFT-09V-103	10.0	3.6	0.3

Test Conditions

Hipot: 1500V_{RMS}/60Hz/3mA/3sec

I_r: Based on temperature rise at 40°C max

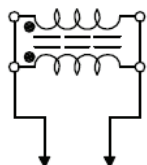
Operating Temperature

-40°C to +125°C

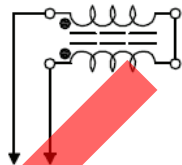
Storage Temperature

-40°C to +125°C

Common Mode
Measuring circuit :

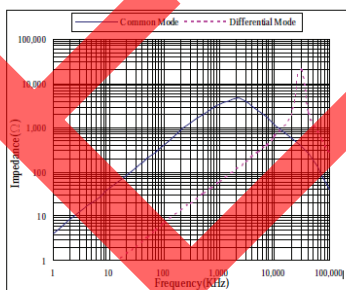


Differential Mode
Measuring circuit :

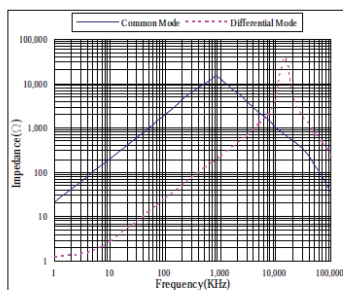


ELECTRICAL CHARACTERISTICS:

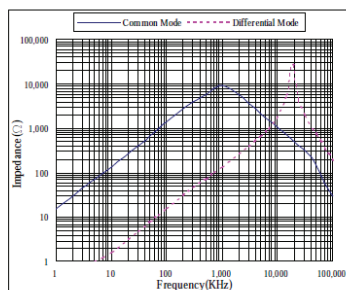
ALFT-09V-501



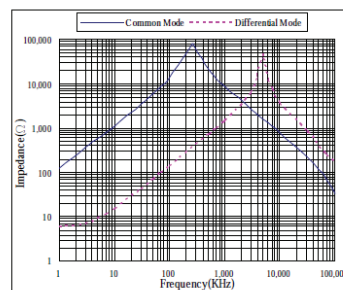
ALFT-09V-202



ALFT-09V-102



ALFT-09V-103



Common Mode Line Filter

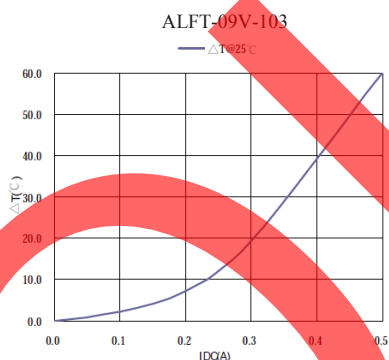
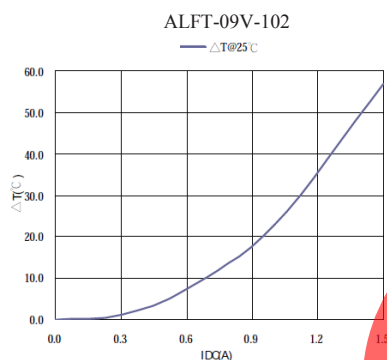
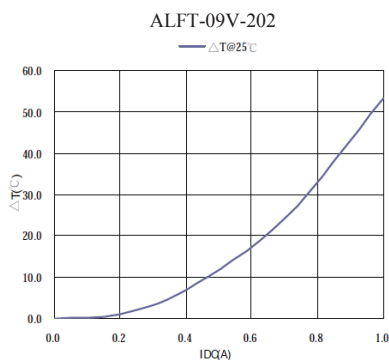
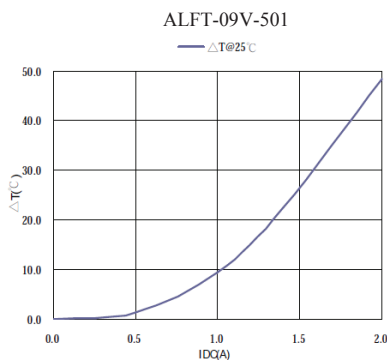
ALFT-09V



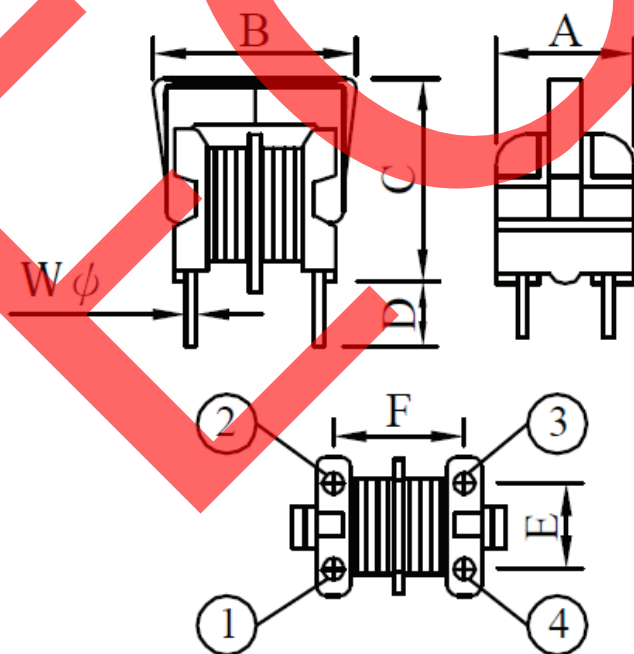
RoHS/RoHS II Compliant



16.5 x 11.5 x 17.0mm



OUTLINE DRAWING:



A	B	C	D	E	F	WΦ
11.5 max	16.5 max	17.0 max	5.0 ±1.0	7.0 ±0.5	8.0 ±0.5	0.6 ±0.05

Dimensions: mm

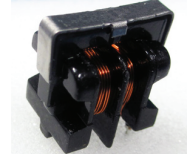


Common Mode Line Filter

ALFT-09V

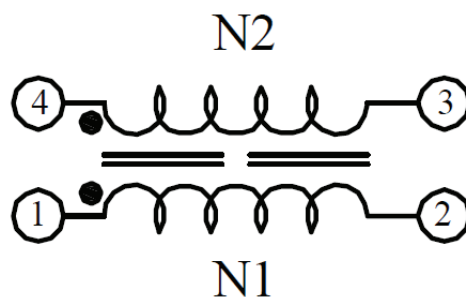


RoHS/RoHS II Compliant



16.5 x 11.5 x 17.0mm

SCHEMATICS



Packing 288pcs/Box



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Revised: 01.02.14

SURFACE MOUNT COMMON MODE CHOKE

ALFT-16-xxx



RoHS
Compliant

13.97 x 11.43 x 6.35mm



ELECTRICAL SPECIFICATIONS:

Part Number	OCL $\pm 20\%$ (μH)	Leakage Ind (μH) Typ	Interwind Cap (pF) Typ	DCR 1-2/4-3 (m Ω) Typ	I _{RMS} (A) Max
ALFT-16-1	35	0.31	2.80	5	5.70
ALFT-16-2	54	0.46	3.05	6	5.10
ALFT-16-3	78	0.64	3.30	7	4.75
ALFT-16-4	105	0.85	3.50	10	3.95
ALFT-16-5	175	1.30	3.70	17	3.10
ALFT-16-6	260	1.90	3.90	20	2.85
ALFT-16-7	310	2.20	4.15	27	2.45
ALFT-16-8	420	3.00	4.40	40	2.00
ALFT-16-9	480	3.30	4.65	56	1.70
ALFT-16-10	620	4.20	4.85	76	1.45
ALFT-16-11	780	5.10	5.10	107	1.20
ALFT-16-12	950	6.10	5.35	145	1.05
ALFT-16-13	1250	7.80	5.55	510	0.88
ALFT-16-14	1600	9.60	5.80	300	0.75

ALFT-16-5:

Core: Ferronic 11824-B x2pcs (0.300x0.125x0.060)

Wire: #27 HPN

Turns: 8 turns each side, 130°

RTV-615

OCL, L_L and C_{WW} test @ 100KHz, 0.1V_{RMS}

Turns Ratio: 1 : 1 \pm 2% (1-2:3-4)

Polarity: 1 and 4 are in phase

I_{RMS}: ΔT of 40°C Max at ambient T° of 85°C

Add -T for tape and reel

Operating temperature: -40°C to +85°C

Hipot: 300V_{DC}, 1 second between windings

RoHS Compliance, effective Date Code 0526, label on reel and box

OUTLINE DRAWING:

