
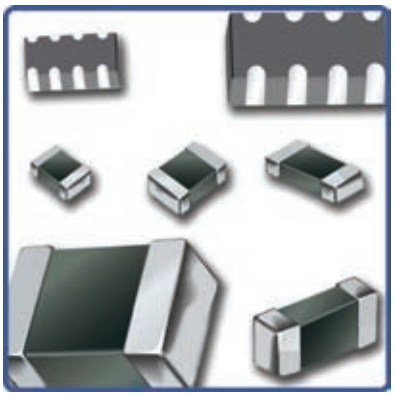


A Worldwide Leading Supplier of Electronic Components

MAGNETIC COMPONENTS

ABRACON CORPORATION

The Power of Linking Together

Inductors Power Inductors Common Mode Chokes	EMI Suppression Beads & Cores	LAN Magnetics RJ45 Integrated Magnetics	Transformers

Short Form Catalog

ISO 9001:2000 CERTIFIED

www.abracon.com

ABOUT ABRACON CORPORATION

ABRACON CORPORATION was established August 5, 1992 with the vision of becoming a top tier global manufacturer of frequency control, Signal Conditioning, Clock Distribution, and Magnetic Components with local design and technical support. In pursuit of this vision, Abracon has obtained ISO9001-2000 quality certification, made select equity investments in off-shore manufacturing facilities and installed quick-turn prototyping capabilities for custom magnetics and programmables at its California headquarters. Additionally, Abracon formed strategic, long term partnerships with off-shore manufacturing operations in order to share manufacturing expertise, advanced technology, capital investments and overall cost benefits obtained by outsourced production.

Abracon's headquarters in Rancho Santa Margarita, CA.

Abracon has created a highly competitive business model that has enabled it to supply OEMs, contract manufacturers and distributors with a wide range of high quality microprocessor crystals, crystal oscillators, SAW devices, and a complete line of magnetic components. Abracon provides its' customers with high quality products, competitive pricing, timely delivery, reliable engineering and technical support and the flexibility to change production requirements on short notice. Abracon seeks to develop close, long term relationships with its' customers by assisting throughout the initial design, development and manufacturing processes.

Abracon assigns each customer with an account manager who acts as the primary contact, and is responsible for developing the business relationship and the allocation of Abracon's resources to meet each customer's requirements. This system allows Abracon to maintain strong customer relationships where responsive service and support matter most. Abracon would like to be your preferred supplier for frequency control and magnetic components.

ABRACON CARES ABOUT THE ENVIRONMENT

Abracon Corporation is committed to addressing the environmental compliance issues that face the electronics industry. Our environmental project encompasses not only Lead-Free and RoHS, but also Packaging Waste and any other directives or legislation that will be required in the future.

Pb

Lead (Pb)-Free package: Lead-Free or Pb-Free mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperature (> 255° C), Pb-Free products are suitable for use in specialized Pb-free process.

RoHS

Restriction on Hazardous Substances Include:

- Pb (Lead) < 0.1% by weight at raw homogeneous material level
- Cd (Cadmium) < 0.01% by weight at raw homogeneous material level
- Hg (Mercury) < 0.1% by weight at raw homogeneous material level
- Cr+6 (Hexavalent Chromium) < 0.1% by weight at raw homogeneous material level
- PBB & PBDE < 1000 ppm by weight at raw homogeneous material level.
- Green package: We define "Green" to mean Pb-free and uses package materials that do not contain halogens, including bromine(Br) or antimony (Sb) above 0.1% of total product weight.

Quality Policy

It Is Abracon Corporation's Objective To Design, Manufacture, Control And Deliver Defect-free Products and Superior Service to Our Valued Customers Worldwide.

Standard Warranty

Abracon warrants that the Products will, for a period of one (1) year, be free from defects in material and workmanship and conform to the Abracon published specifications for the Products, in each case under normal use, conditions, and service. Abracon agrees to replace, without charge, any defective Products which are returned to Abracon and which are confirmed, by Abracon's Quality Department, to be defective within the terms of this warranty. The warranty period commences on the date of original sale by Abracon.

Abracon terms & conditions of sale appy. Check http://www.abracon.com/Support/terms.pdf


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MANAGEMENT SYSTEM CERTIFICATE
ABRACON CORPORATION
ISO 9001:2000
THE DESIGN, MANUFACTURE AND DISTRIBUTION OF ELECTRONIC COMPONENTS

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LAN Magnetics

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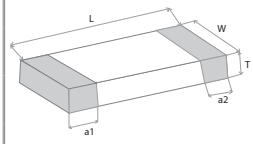
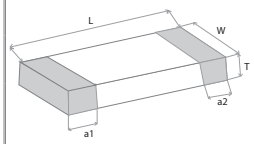
Magnetics for Wireless Applications

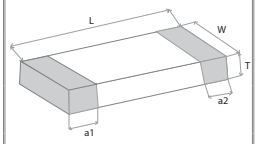
THIN FILM CHIP INDUSTORS

Pb RoHS Compliant

Features:High SRF, Excellent Q, Superior Stability, Tight Tolerance of ± 1% or ± 0.1nH
Applications: Pagers and GPS Products, Communication Appliances, VCO,TCXO Circuit and RF Transceiver Modules

Dimensions (mm) L=0.6	W=0.3	T=0.23	Inductance Range	Basic Specs	
 ATFC-0201			1~10nH	DCR (Ω)	0.3~3.5
				Idc (mA)	300 ~80
				Q	8@500MHz
				SRF (MHz)	Up to 9

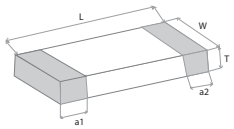
Dimensions (mm) L=1.0	W=0.5	T=0.32	Inductance Range	Basic Specs	
 ATFC-0402			0.2~33nH	DCR (Ω)	0.1~4.5
				Idc (mA)	800 ~75
				Q	13@500MHz
				SRF (MHz)	Up to 14

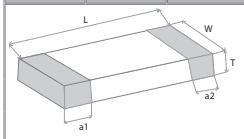
Dimensions (mm) L=1.0	W=0.8	T=0.45	Inductance Range	Basic Specs	
 ATFC-0603			1.0~100nH	DCR (Ω)	0.35~7.5
				Idc (mA)	800 ~100
				Q	15@500MHz
				SRF (MHz)	Up to 13

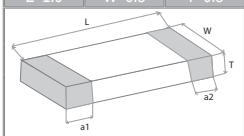
CERAMIC RF CHIP INDUCTORS

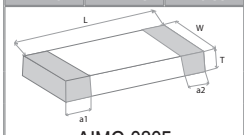
Pb RoHS Compliant

Features: Multilayer monolithic construction, High SRF
Applications: Cellular phone, Bluetooth, RF

Dimensions (mm) L=0.6	W=0.3	T=0.3	Inductance Range	Basic Specs	
 AIMC-0201			1~18nH	DCR (Ω)	0.15~1
				Idc (A)	0.17 ~0.15
				Q	4~5
				SRF (MHz)	>3000

Dimensions (mm) L=1.0	W=0.5	T=0.5	Inductance Range	Basic Specs	
 AIMC-0402			1~120nH	DCR (Ω)	0.08~2.8
				Idc (A)	0.04 ~0.15
				Q	9~10
				SRF (MHz)	>10000~600

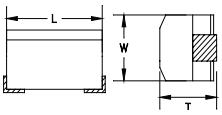
Dimensions (mm) L=1.6	W=0.8	T=0.8	Inductance Range	Basic Specs	
 AIMC-0603			1~270nH	DCR (Ω)	0.05~2.4
				Idc (A)	0.05 ~0.3
				Q	50~100
				SRF (MHz)	>10000~350

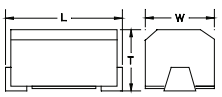
Dimensions (mm) L=2.0	W=1.25	T=0.85	Inductance Range	Basic Specs	
 AIMC-0805			1.5~ 470nH	DCR (Ω)	0.1~2.8
				Idc (A)	0.6 ~0.3
				Q	50~100
				SRF (MHz)	6000~200

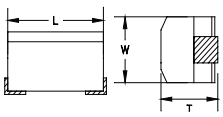
MOLDED WIRE-WOUND CHIP INDUCTORS

Pb RoHS Compliant

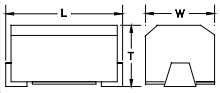
Features: Surface Mount Device, Low DCR, Best for power supply

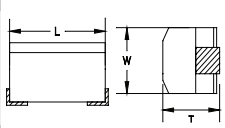
Dimensions (mm) L=2.5	W=2.0	T=1.8	Inductance Range	Basic Specs	
 AISM-1008			0.22~100µH	DCR (Max)	0.7~21Ω
				Idc (Max)	190~60mA
				Q (Min)	25~15A@ 25.2~0.796MHz
				SRF (Min)	Up to 230MHz

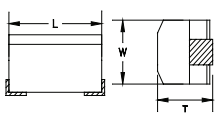
Dimensions (mm) L=3.2	W=2.5	T=2.2	Inductance Range	Basic Specs	
 AISM-1210			0.1~470µH	DCR (Max)	0.44~42Ω
				Idc (Max)	450~25mA
				Q (Min)	30~20@ 100~0.796MHz
				SRF (Min)	Up to 700MHz

Dimensions (mm) L=4.2	W=3.2	T=3.2	Inductance Range	Basic Specs	
 AISM-1812			0.1~1000µH	DCR (Max)	0.18~40Ω
				Idc (Max)	800~30mA
				Q (Min)	50~20@ 25.2~0.796MHz
				SRF (Min)	Up to 300M

Features: High Current, Low DCR, Best for power supply

Dimensions (mm) L=3.2	W=2.5	T=2.2	Inductance Range	Basic Specs	
 AISM-1210H			1.0~330µH	DCR (Max)	0.15~16Ω
				Idc (Max)	850~60mA
				Q (Min)	10~20@ 7.96~0.796MHz
				SRF (Min)	Up to 100MHz

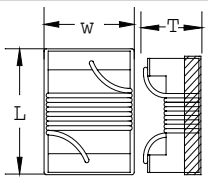
Dimensions (mm) L=4.2	W=3.2	T=3.2	Inductance Range	Basic Specs	
 AISM-1812H			1.0~330µH	DCR (Max)	0.11~13Ω
				Idc (Max)	1050~90mA
				Q (Min)	10~20@ 7.96~0.796MHz
				SRF (Min)	Up to 200MHz

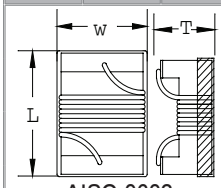
Dimensions (mm) L=5.8	W=5.2	T=5.2	Inductance Range	Basic Specs	
 AISM-2220			0.1~1000µH	DCR (Max)	0.03~15Ω
				Idc (Max)	1800~85mA
				Q (Min)	10~20@ 7.96~0.796MHz
				SRF (Min)	Up to 95MHz

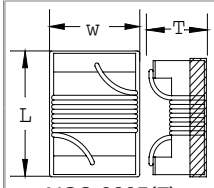
WIRE-WOUND RF CHIP INDUCTORS

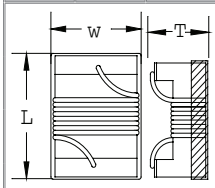
Pb RoHS Compliant

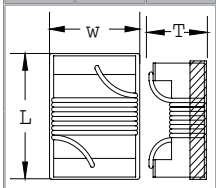
Features: Exceptional Q, High SRF, Excellent DCR, extended inductance range

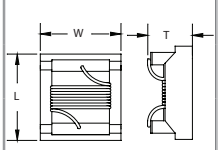
Dimensions (mm)	Inductance Range	Basic Specs	
L=1.0 W=0.5 T=0.5			
 AISC-0402	1.0~47nH	DCR (Max)	0.05~0.83Ω
		Idc (Max)	1360~150mA
		Q (Min)	24~16@ 800MHz
		SRF (Min)	Up to 6GHz

Dimensions (mm)	Inductance Range	Basic Specs	
L=1.6 W=1.0 T=1.0			
 AISC-0603	1.8~390nH	DCR (Max)	0.045~2.1Ω
		Idc (Max)	700~120mA
		Q (Min)	16~35@ 250~100MHz
		SRF (Min)	Up to 6GHz

Dimensions (mm)	Inductance Range	Basic Specs	
L=2.3 W=1.7 T=1.55			
 AISC-0805(F)	2.2~68,000nH	DCR (Max)	0.1~17.5Ω
		Idc (Max)	600~49mA
		Q (Min)	8~60@ 1500~2.5MHz
		SRF (Min)	Up to 6GHz

Dimensions (mm)	Inductance Range	Basic Specs	
L=2.9 W=2.8 T=2.3			
 AISC-1008(F)	4.7~10,000nH	DCR (Max)	0.11~10.7Ω
		Idc (Max)	1000~150mA
		Q (Min)	20~70@ 1500~7.9MHz
		SRF (Min)	Up to 6GHz

Dimensions (mm)	Inductance Range	Basic Specs	
L=3.7 W=2.8 T=2.2			
 AISC-1210	3.3~1200μH	DCR (Max)	0.05~3.2Ω
		Idc (Max)	1000~300mA
		Q (Min)	20~70@ 1500~150MHz
		SRF (Min)	Up to 6.2GHz

Dimensions (mm)	Inductance Range	Basic Specs	
L=3.8 W=3.8 T=2.7			
 AISC-1008S	1~1000μH	DCR (Max)	0.05~30Ω
		Idc (Max)	2000~110mA
		Q (Min)	35~55@ 1MHz
		SRF (Min)	Up to 350MHz

AIR COIL INDUCTORS

Features: High current design, Excellent Q & SRF, Removable pick and place cap
Applications: RF circuits, Telecommunications, Consumer electronics

Dimensions (mm)	Inductance Range	Basic Specs	
A=3.68, B=3.05, C=2.92, D=2.92, E=0.58			
Please refer to Figure A.1 below AIAC-1512C	2.5~18.5nH	DCR (Max)	1.1~3.9mΩ
		Idc (Max)	4.0A
		Q (Min)	132~145@ 150MHz
		SRF (Min)	12.5~2.5GHz

Dimensions (mm)	Inductance Range	Basic Specs	
A=6.86, B=3.05, C=2.92, D=5.84, E=0.58			
Please refer to Figure A.1 below AIAC-2712C	17.5~43nH	DCR (Max)	4.5~7.9mΩ
		Idc (Max)	4.0A
		Q (Min)	100~106@ 150MHz
		SRF (Min)	2.2~1.2GHz

Dimensions (mm)	Inductance Range	Basic Specs	
A=4.95, B=3.81, C=4.2, D=4.3, E=1.53			
Please refer to Figure A.1 below AIAC-2015C	22~120nH	DCR (Max)	4.2~17.3mΩ
		Idc (Max)	3.0~1.5A
		Q (Min)	100~150MHz
		SRF (Min)	3.2~1.1GHz

Dimensions (mm)	Inductance Range	Basic Specs	
A =10.5, B =6.35, C=5.97, D=7.98, E=1.27			
Please refer to Figure A.1 below AIAC-4125C	90~538nH	DCR (Max)	15~90mΩ
		Idc (Max)	3.5~2.0A
		Q (Min)	95~87@50MHz
		SRF (Min)	1.14~0.49GHz

Figure A.1

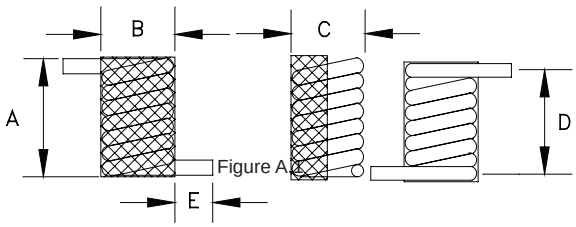
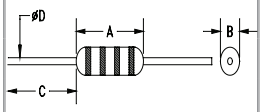


Figure A.2

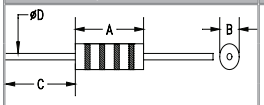

Air Coil Inductors

AXIAL INDUCTORS

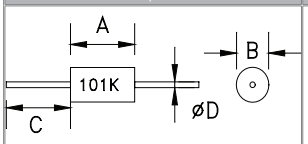
Features: Conformal coated, Ferrite core, Epoxy resin, Bulk or Ammo Pack
Applications: Switching regulators, power supplies, RFI suppression, filters, and audio equipment

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=4.06~9.53, B=2.29~3.05 C=26.7~29.2, D=0.51			
	0.022~ 100µH	DCR (Ω)	0.08~8.2
		Idc (mA)	400~290
		Q	25~85
*AICC-00~04		SRF (MHz)	150~10

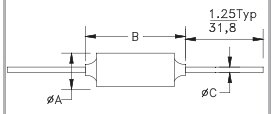
Features:Epoxy coat with EIA color code, Ferrite core, Bulk or Ammo Pack, RoHS Compliant
Applications: Switching regulators, power supplies, RFI suppression, filters, and audio equipment and audio equipment

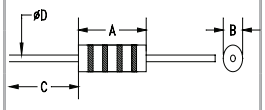
Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=9.14, B= 3.3±0.25 C=29.2, D=0.51			
	1.0~100µH	DCR (Ω)	190~3.9
		Idc (mA)	3300~550
AIAP-01		SRF (MHz)	380~5.3

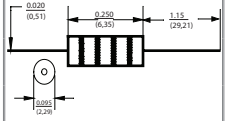
Features:UL VW-1 heat shrink tube, Bulk or Ammo Pack, RoHS Compliant
Applications: Switching regulators, power supplies, RFI suppression, filters, and audio equipment

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=14.0~22.9, B= 6.4~11.4 C=25.4~29.2, D=0.81			
	3.3~ 120000 µH	DCR (Ω)	0.007~48.3
		Idc (mA)	15.5~0.9
*AIAP-02,03,05			

Features:UL Polyolefin Tubing, 2,500 VRMS isolation, Bulk or Ammo Pack
Applications: Switching regulators, power supplies, RFI suppression, filters, and audio equipment

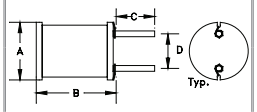
Dimensions (mm)	L Range (µH)	Basic Specs (Typical)	
A=12.07~19.05, B= 20.32~33.02, C= 0.81~1.02			
	5~1000µH	DCR (Ω)	0.120~0.060
		Idc (A)	1.4~16
AIAP-04			

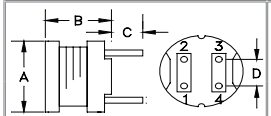
Dimension Ranges (mm)	L Range (µH)	Basic Specs (Typical)	
A=6.6~11.4, B= 2.8~4.06 C= 29.2, D=0.51~0.63			
	0.10~ 100000µH	DCR (Max)	0.025~484 Ω
		Idc (Max)	2900~22mA
		Q	29~60
*AIAS-01~04		SRF (Min)	11~39MHz

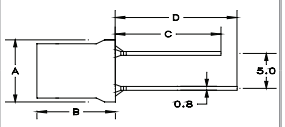
Dimensions (mm)	L Range (µH)	Basic Specs (Typical)	
A=6.35, B=2.29, C=29.21, D=0.51			
	0.022~ 1000uH	DCR (Max)	0.025~72Ω
		Idc (Max)	2400~28mA
		Q	50~25
AIAM-01		SRF (Min)	up to 90 MHz

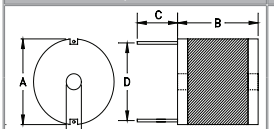
RADIAL INDUCTORS

Features: Radial leaded ferrite drum core w/ UL approved heat shrink tube, high inductance & reliability
Applications: Amplifiers, TV, SWPS system, audio equipment, RFI suppression and filters

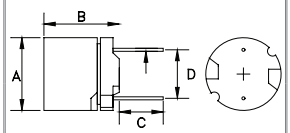
Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=6~12.7, B=4.6~18.0, C=4.0~15.9, D=4.0~7.4			
	1~27,000	DCR (Max)	0.013~80Ω
		Idc (Max)	14.2~0.03A
		Q @ Test Freq.	10~100@ 7.96~0.079MHz
*AIUR-01~07, 10			

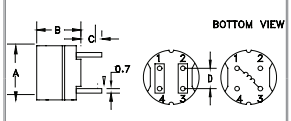
Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=10.0 ±0.5, B=6.0~10.0 C=3.5, D=5.0 ±0.3			
	10~1,000	DCR (Max)	0.022~3.3Ω
		Idc (Max)	5.3~0.36A
*AIUR-08~09			

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=7.0~18.0, B=9.3~20.0 C=9.5~30.5, D=15.9~34.5			
	3.3~33,000	DCR (Max)	0.03~100Ω
		Idc (Max)	6.8~0.034A
*AIUR-11,12,15,16			

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=15.5~28.0, B=21.0~21.1 C=12.5~12.7, D=14.0~20.0			
	1.0~4,700	DCR (Max)	0.003~1.86Ω
		Idc (Max)	116~1.7A
*AIRD-01,02,03,06			

Features: Magnetically shielded & Dip type, comparably high current, high inductance, high dip stability
Applications:PC, Variety of battery power equipment, DC power supply circuits

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=6.0~10.8, B=6.5~14.0, C=4.0~5.0, D=4.0~5.0			
	1.0~120,000	DCR (Max)	0.047~97Ω
		Idc (Max)	5.3~0.008A
*AISR-01, 875, 0607S			

Dimension Ranges (mm)	L Range (µH)	Basic Specs	
A=10.5, B=8.0~10.5, C=3.5, D=15.9~34.5			
	10.0~10,000	DCR (Max)	0.02~2.3Ω
		Idc (Max)	3.9~0.28A
*AISR-04, ADPI-1108S			

SMD POWER INDUCTORS

RoHS Compliant

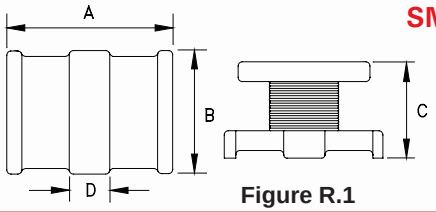


Figure R.1

Features: Exceptional Q, High SRF, Excellent DCR
Applications: Power line DC/DC converter, hard disks, notebook computers & other electronic equipment

Dim. Ranges (mm ±0.3)	L Range (µH)	Basic Specs	
A = 3.2~5.7, B =2.5~5.0 C =2.0~4.5, D = 0.8~2.0			
Please refer to Figure R.1 above *AISC-1206H, 1210H, 1812H, 2220H	0.15~2200µH	DCR (Ω)	0.02~65 Ω
		Idc (A)	4.4~0.01

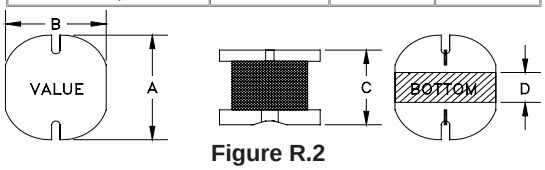


Figure R.2

Features: Rated current up to 3.8 A, Very small foot print
Applications: Ideal for Palm-Top and DC/DC converter, flash memory, LCD displays, telecommunication devices

Dim. Ranges (mm ±0.3)	L Range (µH)	Basic Specs	
A = 3.2~5.7, B =2.5~5.0 C =2.0~4.5, D = 0.8~2.0			
Please refer to Figure R.2 above *ASPI-0302, 0403,0504, 0703, 0705, 1004,1005	0.15~1000µH	DCR (Ω)	0.03~39 Ω
		Idc (A)	3.85~0.15

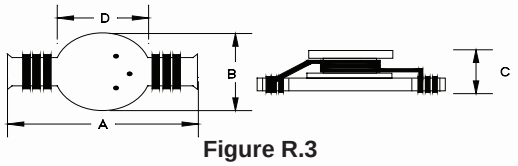


Figure R.3

Features:Up to 30A
Applications: Suitable for DC/DC converters, computers, LCD displays, telecommunication equipment & PDAs, etc.

Dim. Ranges (mm ±0.3)	L Range (µH)	Basic Specs	
A = 8.9~22.4, B =6.1~16.0 C =5.0~8.0, D =5.8~14.0			
Please refer to Figure R.3 above *ASPI-0706HC, 0804HC, 1306HC	0.33~270µH	DCR (Ω)	0.002~4Ω
		Isat (Max)	20~0.08A

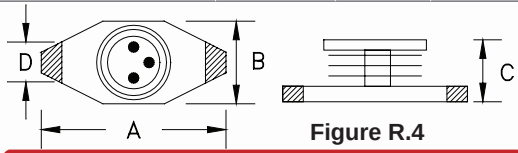
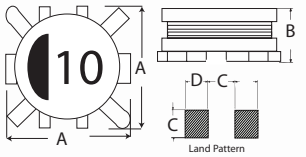


Figure R.4

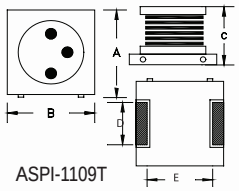
Features:Rated current up to 2.9A, SRF up to 130MHz, Flap-top for pick-and-place, Very small foot print
Applications: VTR power supplies, LCDs, PC notebooks, OA equipment, DC/DC converters, and various portable devices.

Dim.Ranges (mm ±0.3)	L Range (µH)	Basic Specs	
A = 6.6~18.5, B =4.5~15.2 C =2.9~11.4, D =2.5~3.1			
Please refer to Figure R.4 above *ASPI-0402T, 0603T, 0802T, 0804T, 0810T, 1306T	1.0~2700µH	DCR (Ω)	0.009~13.8Ω
		Isat (Max)	10~0.1A

Features:Low profile, Compact size, Large terminal surface, Low DCR, Large current
Applications: DC/DC converter, Notebooks, Servers, Network hubs, OA equipment, LCDs, DVD players, Battery chargers, etc.

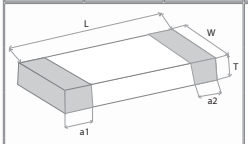
Dim. Ranges (mm ±0.3)	L Range (µH)	Basic Specs	
A = 3.2~5.6 B =1.0~1.9 C =2.5 D =1.75			
 *ASPI-5610, 5612, 5619	2.2~ 1,000µH	DCR (Max)	0.076~22.0Ω
		Idc (Max)	2.2~0.10A

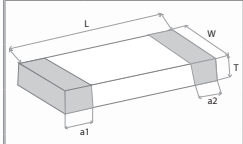
Features:Rated current up to 3.5A, Flap-top for pick-and-place, Very small foot print
Applications:VTR power supplies, LCDs, PC notebooks, OA equipment, DC/DC converters, and various portable devices

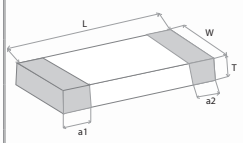
Dimensions (mm ±0.3)	L Range (µH)	Basic Specs	
A = 11.2 B =13.7 C=8.3			
 ASPI-1109T	10~1200µH	DCR (Max)	0.06~3.5Ω
		Idc (Max)	3.5~0.35A

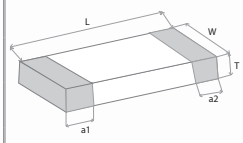
FERRITE CHIP INDUCTORS

Features: Multilayer, Ferrite Base, No cross coupling due to magnetic shield
Applications: For resonance circuits & filters

Dimensions (mm)	Inductance Range	Basic Specs	
L=1.0 W=0.5 T=0.5			
 AIML-0402	0.047~10µH	DCR (Ω)	0.45~3.45
		Idc (mA)	25~2
		Q	10~20
		SRF (MHz)	220~9

Dimensions (mm)	Inductance Range	Basic Specs	
L=1.6 W=0.8 T=0.8			
 AIML-0603	0.047~33µH	DCR (Ω)	0.2~1.7
		Idc (mA)	500~5
		Q	8~35
		SRF (MHz)	7000~20

Dimensions (mm)	Inductance Range	Basic Specs	
L=2.0 W=1.25 T=0.85			
 AIML-0805	0.047~100µH	DCR (Ω)	0.2~2.5
		Idc (mA)	300~2
		Q	15~50
		SRF (MHz)	350~8

Dimensions (mm)	Inductance Range	Basic Specs	
L=3.2 W=1.6 T=1.1			
 AIML-1206	0.047~220µH	DCR (Ω)	0.15~4
		Idc (mA)	300~2
		Q	30~55
		SRF (MHz)	400~5.5

SMD SHIELDED POWER INDUCTORS

RoHS Compliant

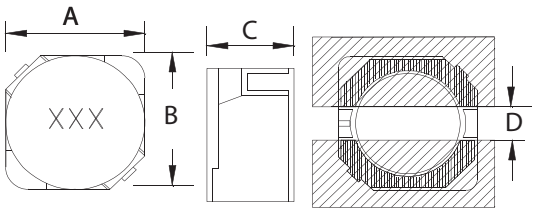


Figure S.1

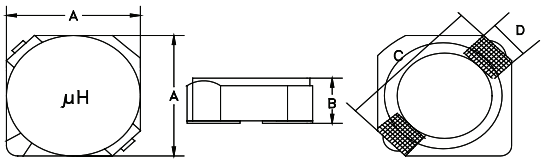
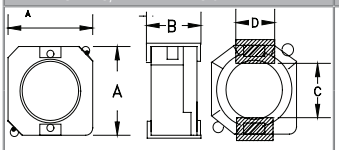


Figure S.3

Features: Compact size, Low DCR and High Idc
Applications: Flash memory, Step-up and Step-down converters, DC/DC converters, Computers, Communication Devices

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A = 3.8~6.7 B = 3.8~6.7, C =1.8~4.0, D = 1.3~2.0			
Please refer to Figure S.1 above	1.2~470μH	DCR (Max)	0.02~2.69Ω
*ASPI-0315S, 0428S, 0503S, 0602S, 0638S		Idc (Max)	3.5~0.2A

Features: Magnetically shielded, Low DCR & High current, Suitable for high saturation, High reliability
Applications: DC/DC converters, Network hubs, XDSL, PBX base stations, Notebooks, Servers,TVs, DVD Players, etc.converters, Computers, Communication Devices

Dimensions (mm ±0.3)	L Range (μH)	Basic Specs	
A = 10.0, B = 3.8, C = 7.3, D = 3.6			
	1.0~330μH	DCR (Max)	0.006~1.09Ω
ASPI-104S		Idc (Max)	13.6~0.70A

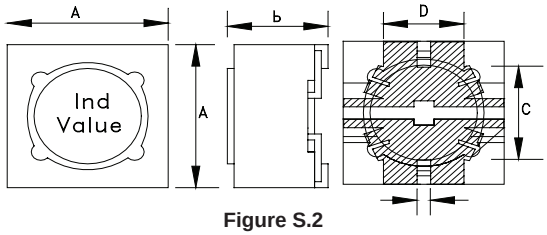
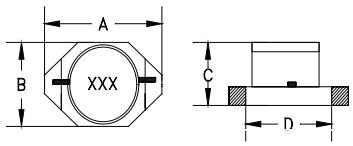


Figure S.2

Features: Small footprint, Flat-top, Magnetically shielded & Low resistance, High DC current
Applications:DC/DC converters, OA equipment, LCDs, Notebooks, Portable communication equipmentconverters, Computers, Communication Devices

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A = 7.3~12.0 B = 3.2~8.0, C =4.8~7.6, D = 2.0~5.1			
Please refer to Figure S.2 above	1.0~1000μH	DCR (Max)	0.007~9.4Ω
*ASPI-0703S,0704S,1205S,1207S		Idc (Max)	14~0.16A

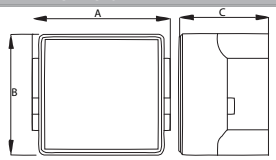
Features: Low DCR, Magnetically shielded, High reliability, High heat resistance & energy storage
Applications: DC to DC converters for notebooks, PDAs, cellular phones

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A = 6.6~18.5, B = 4.5~15.2, C = 2.9~7.6, D = 4.1~12.7			
	1.0~10000μH	DCR (Max)	0.04~32.8Ω
*ASPI-0403S, 1306S		Idc (Max)	3.0~0.8A

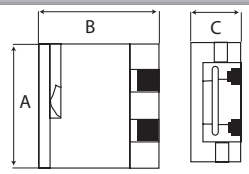
Features: Low profile, Compact size, Large terminal surface, Low DCR, Large current
Applications: DC/DC converter, Notebooks, Servers, Network hubs, OA **equipment, LCDs, DVD players, Battery chargers, etc.**

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A = 3.2, B = 1.0~2.1, C =3.3, D =2.1			
Please refer to Figure S.3 above	1.2~47.0μH	DCR (Max)	0.041~0.660Ω
*ASPI-2D09, 2D11, 2D14, 2D18		Idc (Max)	1.8~ 0.28 A

Features: Low profile, Compact size, Handles high transient current spikes, Low DCR, High current
Applications: DC to DC converters for FPGAs, Servers, High current power supplies, Battery power

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A =7.3~13.8, B = 6.8~12.9, C =1.8~6.7			
	0.1~10.0μH	DCR (Max)	0.002~0.105Ω
*ASPI-7318, 06P, 1367		Idc (Max)	120 ~7.0A

Features: Low DCR/ High Power /Standard/ Ultra-power type, Large current, Magnetically shielded, Super thin & Low loss, Miniaturization design
Applications: DC/DC converters for notebooks, Desktops, Servers, Battery **power equipment, Power suppliers, etc.**

Dimension Ranges (mm ±0.3)	L Range (μH)	Basic Specs	
A = 10.4~12.9, B = 10.4, C = 4.5~5.7			
	0.4~10.0μH	DCR (Max)	0.002~0.024Ω
*ASPI-4118L, 4118S, 4122L,4122S, 4122H, 5123S, 5123H, 5123U		Idc (Max)	4.9~19.0A

Shielded Power Inductors

CHOKES

RoHS Compliant

Shielded High Current VRM Choke with Iron Core

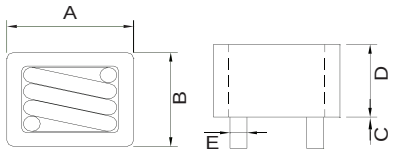
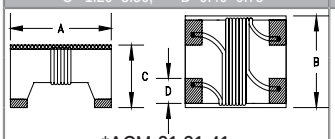


Figure C.1

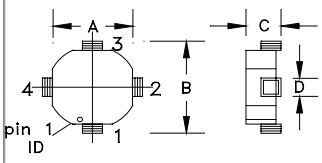
Features: Low DCR, High frequency

Dimension Ranges (mm) A = 8.2~13.5, B = 8.2~12.5, C =3.5±0.5, D =6.0~10.0	Inductance Range	Basic Specs (Typical)	
Please refer to Figure C.1 above	0.25~3.30µH	DCR (Max)	0.8~5.2Ω
		Idc (Max)	.7~50A
*ASVC-0806P, 0806C, 1108T, 1108P, 1108C, 1310P		I-sat	18~48A
		L Test Condition	1.0V/100KHz

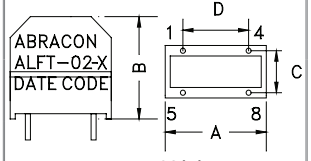
SMD Wire Wound Chip Common Mode Choke (w/ or w/o cap)

Dimension Ranges (mm) A= 2.05~ 4.95, B= 1.25~3.50, C= 1.20~3.56, D=0.40~0.75	Inductance Range	Basic Specs (Typical)	
 *ACM-21,31,41	30~ 2200µH	DCR (Max)	0.2~ 1.2Ω
		Idc (Max)	280~800mA
		Z Test Frequency	50~100MHz

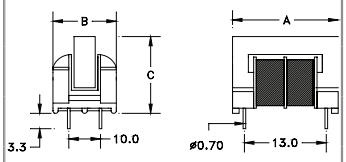
SMD Toroidal Common Mode Choke

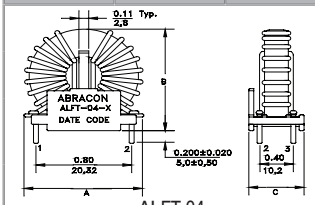
Dimension Ranges (mm) A=8.9~11.4, B= 11.4~13.9, C= 4.7~6.35, D=2.9~3.2	Inductance Range	Basic Specs	
 *ASTC-01,02,03,04, ALFT-16	0.31~ 1600µH	DCR (Max) Parallel	0.003~1.5Ω
		Idc (Max) Parallel	22.5~0.22A
		Inductance measured at	100KHz, 0.25VRMS
		Hipot	300VRMS, 1min

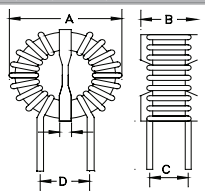
THT Toroidal Common Mode Choke

Dimensions (mm) A = 18.6, B =20.6, C = 10.0, D = 5.0 or 15.0	Inductance Range	Basic Specs	
 ALFT-02(A)	0.4~39mH	Idc (Max) Parallel	3.0~0.2A
		Inductance measured at	1KHz, 0.1VRMS
		Hipot	1500VRMS min

Toroidal Inductors
Common Mode Chokes

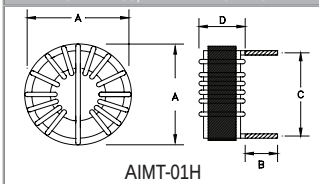
Dimensions (mm) A = 23.9, B =18.0, C = 21.6	Inductance Range	Basic Specs	
 ALFT-03(A)	0.6~ 105mH	DCR (Max) Parallel	0.003~1.5Ω
		Idc (Max) Parallel	22.5~0.25A
		Inductance measured at	1KHz, 0.1VRMS
		Hipot	2000VRMS min

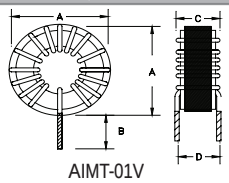
Dimensions (mm) A = 30.5, B =31.8, C = 16.3	Inductance Range	Basic Specs	
 ALFT-04	0.24~10mH	DCR (Max) Parallel	0.005~0.04Ω
		Idc (Max) Parallel	20~8A
		Inductance measured at	1KHz, 0.1VRMS
		Hipot	2000VRMS min

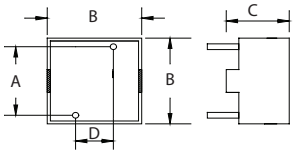
Dimensions (mm) A = 15.2, 20.3, or 30.5, B = 11.4, 14.0, or 20.3 C = 10.2, 12.7, or 17.8, D = 5.1 ~ 10.2	Inductance Range	Basic Specs	
 ALFT-06	0.6~50mH	DCR (Max) Parallel	0.02~0.2Ω
		Idc (Max) Parallel	1~10A
		Inductance measured at	1KHz, 0.1VRMS
		DWV	3750VRMS min

THT POWER INDUCTORS (THRU-HOLE)

Features: Self leads horizontal mounts, 6~960µH, 0.5~10ADC

Dimensions (mm ±0.3) A = 7.5~42.5, B = 12.7±1.3, C = A±1.53, D = 4.5±21.5	L Range (µH)	Basic Specs	
 AIMT-01H	5~960µH	DCR (Max)	0.007~ 0.438Ω
		Idc (Max)	0.5~10A

Dimensions (mm ±0.3) A = 7.5~42.5, B = 12.7±1.3, C = 4.5±21.5, D = C±1.53	L Range (µH)	Basic Specs	
 AIMT-01V	5~960µH	DCR (Max)	0.007~ 0.438Ω
		Idc (Max)	0.5~10A

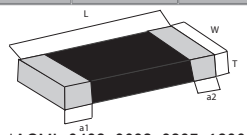
Dimension Ranges (mm ±0.3) A = 15.24~18.3 , B = 13.0~18.0, C = 11.7~18.0	L Range (µH)	Basic Specs	
 *AICT-LP, VM	68~975µH	DCR (Max)	0.25~2.6Ω
		Idc (Max)	2.5~0.5A

EMI SUPPRESSION
FERRITE CHIP BEADS (FCB)

RoHS Compliant

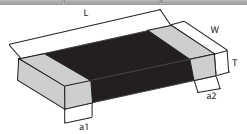
GENERAL PURPOSE FERRITE CHIP BEADS

Features: Multilayer monolithic construction

Dimension Ranges (mm) L= 1.0~3.2	W=0.5~1.6	T=0.5~0.9	Impedance Range (Z)	Basic Specs	
 *ACML-0402, 0603, 0805, 1206			5~3000Ω	DCR (Ω)	0.04~1.5
				Ir(mA)	2500~200
				Z Test Freq.	100/50MHz

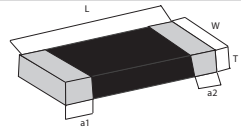
HIGH CURRENT FERRITE CHIP BEADS

Features: Up to 4A, High Z over a wide frequency range

Dimension Ranges (mm) L= 1.6~3.2	W=0.8~1.6	T=0.8~0.9	Impedance Range (Z)	Basic Specs	
 *ACML-0603H, 0805H, 1206H			5~2000Ω	DCR (Ω)	0.02~0.45
				Ir(mA)	4000~700
				Z Test Freq.	100/50MHz

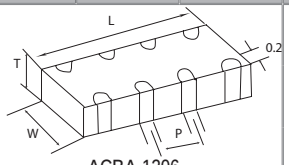
HIGH FREQUENCY FERRITE CHIP BEADS

Features: Noise countermeasure, High Z at high frequencies

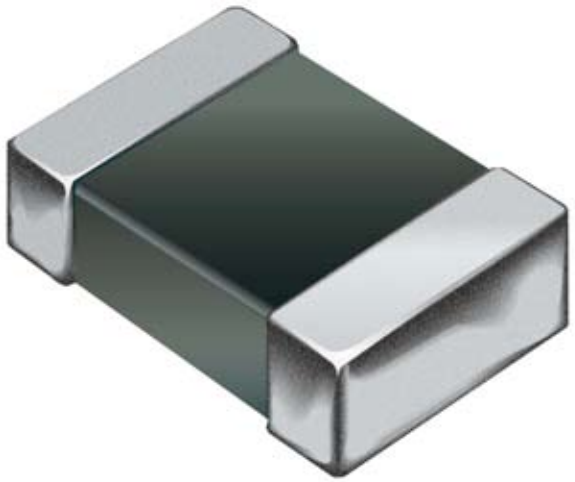
Dimension Ranges (mm) L= 1.0~1.6	W=0.5~0.8	T=0.5~0.8	Impedance Range (Z)	Basic Specs	
 *ACHB-0402, 0603, 0603G			120~1000Ω	DCR (Ω)	0.5~1.9
				Ir(mA)	300~100
				Z Test Freq.	100MHz

FERRITE CHIP BEAD ARRAY

Features: EMI suppression in 4 lines, Minimized cross-talk
Applications: Computers, Cameras, etc.

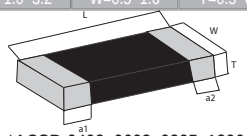
Dimensions (mm) L= 3.2	W=1.6	T=0.8	Impedance Range (Z)	Basic Specs	
 ACBA-1206			60~1000Ω	DCR (Max)	0.25~1.0 Ω
				Ir(mA)	300~100
				Z Test Freq.	100MHz

Ferrite Chip Beads

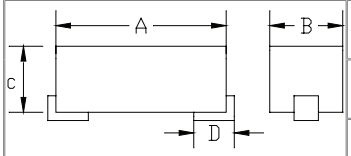


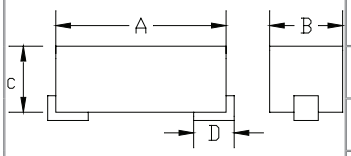
SHARP IMPEDANCE FERRITE CHIP BEADS

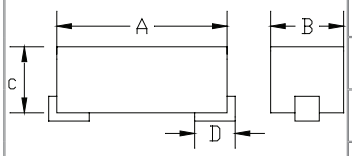
Features: Sharp Bead, Sharp Impedance at desirable freq., Does not affect the signal freq.

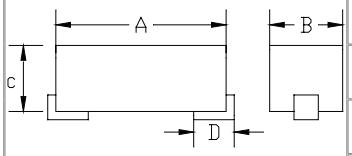
Dimension Ranges (mm) L= 1.0~3.2	W=0.5~1.6	T=0.5~0.9	Impedance Range (Z)	Basic Specs	
 *ACSB-0402, 0603, 0805, 1206			7~2000Ω	DCR (Ω)	0.02~1.0
				Ir(mA)	500~1000
				Z Test Freq.	100/ 50MHz

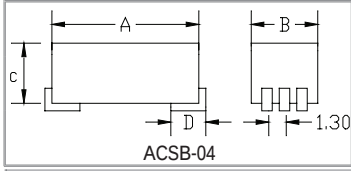
Features: Surface-Mount Bead, Rugged Construction and high resistance to heat & humidity

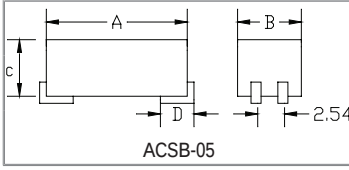
Dimensions (mm) A = 3.0, B = 2.5, C = 2.0, D = 1.15	Impedance Range (Z)	Basic Specs	
 ACSB-01		DCR (Ω)	0.5 Max
	030Ω	Z Test Freq.	100MHz
	20Ω	Z Test Freq.	25MHz

Dimensions (mm) A = 8.5, B = 3.1, C = 2.6, D = 2.0	Impedance Range (Z)	Basic Specs	
 ACSB-02(B)		DCR (Ω)	0.9 Max
	-02: 90Ω	Z Test Freq.	100MHz
	-02B: 60Ω	Z Test Freq.	100MHz
	60Ω	Z Test Freq.	25MHz

Dimensions (mm) A = 4.0, B = 3.1, C = 2.6, D = 1.35	Impedance Range (Z)	Basic Specs	
 ACSB-03(B)		DCR (Ω)	0.6 Max
	-03: 47 Ω	Z Test Freq.	100MHz
	-03B: 30Ω	Z Test Freq.	100MHz
	30Ω	Z Test Freq.	25MHz

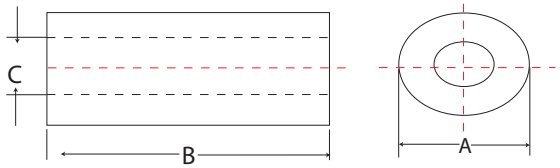
Dimensions (mm) A = 4.0, B = 3.1, C = 2.6, D = 1.35	Impedance Range (Z)	Basic Specs	
 ACSB-03(B)		DCR (Ω)	0.6 Max
	-03: 47 Ω	Z Test Freq.	100MHz
	-03B: 30Ω	Z Test Freq.	100MHz
	30Ω	Z Test Freq.	25MHz

Dimensions (mm) A = 5.0, B = 4.5, C = 3.0, D = 1.3	Impedance Range (Z)	Basic Specs	
 ACSB-04		DCR (Ω)	0.8 Max
	47 Ω	Z Test Freq.	100MHz
	23Ω		5.0

Dimensions (mm) A = 4.5, B = 5.6, C = 3.0, D = 1.3	Impedance Range (Z)	Basic Specs	
 ACSB-05		DCR (Ω)	0.8 Max
	35 Ω	Z Test Freq.	100MHz
	23Ω		4.5

RH TYPE EMI CORES

RoHS Compliant



Features: NiZn ferrite core for suppression of conducted EMI from 20MHz to 250MHz
Applications: EMI/RFI suppressors, wide band chokes, high frequency common mode chokes, etc

Part Number	Dimensions (mm)			Impedance (Ω) typ.	
	A	B	C	@25MHz	@100MHz
ARHC-090505	9.5 ± 0.25	4.8 ± 0.20	4.8 ± 0.20	26	47
ARHC-090905	9.5 ± 0.25	9.5 ± 0.30	4.8 ± 0.20	44	70
ARHC-091305	9.5 ± 0.25	12.7 ± 0.30	4.8 ± 0.20	50	81
ARHC-101007	10.5 ± 0.25	10.2 ± 0.40	7.30 ± 0.25	30	50
ARHC-102007	10.5 ± 0.25	20.0 ± 0.60	7.30 ± 0.25	75	165
ARHC-111505	11.5 ± 0.30	15.0 ± 0.40	5.00 ± 0.25	110	200
ARHC-111805	11.5 ± 0.30	18.5 ± 0.50	5.00 ± 0.25	115	210
ARHC-112805	11.5 ± 0.30	28.5 ± 0.75	5.00 ± 0.25	172	235
ARHC-121507	12.1 ± 0.40	15.5 ± 0.40	7.30 ± 0.25	74	160
ARHC-141506	14.2 ± 0.50	15.5 ± 0.40	6.35 ± 0.25	94	175
ARHC-142806	14.2 ± 0.50	28.5 ± 0.75	6.35 ± 0.25	158	275
ARHC-142808	14.2 ± 0.50	28.5 ± 0.75	8.20 ± 0.25	120	220
ARHC-152807	15.5 ± 0.50	28.5 ± 0.75	7.30 ± 0.25	170	280
ARHC-152809	15.5 ± 0.50	28.5 ± 0.75	9.00 ± 0.25	121	222
ARHC-152810	15.5 ± 0.50	28.5 ± 0.75	10.50 ± 0.30	98	210
ARHC-161308	16.0 ± 0.50	13.0 ± 0.40	8.00 ± 0.25	82	150
ARHC-161608	16.0 ± 0.50	16.0 ± 0.40	8.00 ± 0.25	100	190
ARHC-162808	16.0 ± 0.50	28.5 ± 0.75	8.00 ± 0.25	151	255
ARHC-171309	17.5 ± 0.50	12.7 ± 0.40	9.5 ± 0.25	72	159
ARHC-172809	17.5 ± 0.50	28.5 ± 0.75	9.5 ± 0.25	133	239
ARHC-172810	17.5 ± 0.50	28.5 ± 0.75	10.00 ± 0.30	120	210
ARHC-262813	25.3 ± 0.80	28.5 ± 0.75	12.90 ± 0.30	147	258
ARHC-282814	28.5 ± 0.80	28.5 ± 0.75	14.00 ± 0.30	140	245

DATA NOISE LINE FILTER

RoHS Compliant

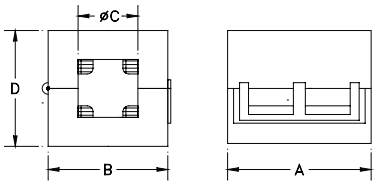


Fig.1

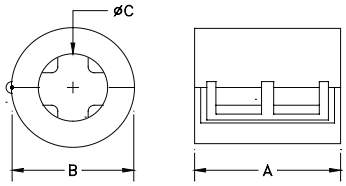


Fig.2

Features: • Hinged-camp • High Performance • EMI Filtration
Applications: • Interface / Data Line Cables: Computers, Peripherals, Terminal Equipment and Data Terminals • Common-mode Noise Filtration, Data Line Communication Terminals, Digital Equipment

Part Number	Dimensions (mm)				Z (Ω) min		Remark
	A (±1)	B (±1)	C (±1)	D (±1)	@25MHz	@100MHz	Cable wire diameter
ADNF-65	32	19.5	6.5	19	120	220	0.8
ADNF-100	32	24.5	10	23	90	205	0.8
ADNF-130 Refer Fig. 1	32	31.5	13	30	90	205	0.8
ADNF-35	25.5	15	3.8		50	80	0.8
ADNF-50	29.2	16	5.3		64	160	0.8
ADNF-75	39	20	7.6		100	190	0.8
ADNF-90 Refer Fig. 2	43.5	22.5	9.3		105	190	0.8

LAN TRANSFORMERS

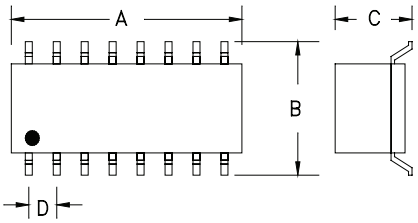
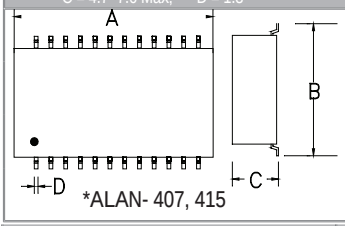


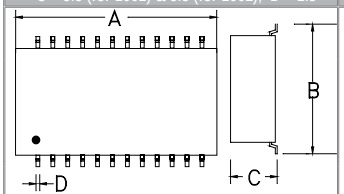
Figure L.1

Features: 10/100 BASE-T single port, Meet IEEE802.3 and ANSI X3.263, 350µH OCL with 8mA bias, UL 1950 approved, impedance 100Ω, Hipot: 1500VRMS
Applications: Telecommunications, high speed ethernet

Dimension Ranges (mm±0.3) A = 12.7, B = 9.4, C = 6.0 Max, D = 1.3	TX Turns Ratio	Basic Specs	
Please refer to Figure L.1 above *ALAN-101, 102, 134,	1:1	IL (dB Max) 0.1~100MHz	-1.1
		RL (dB Typ) 30~80MHz	20~-12
		CMR (dB Typ) 30~100MHz	-42~-33
		X-Talk (dB Typ) 30~100MHz	-45~-33
Please refer to Figure L.1 above ALAN-104	1:1.41	IL (dB Max) 0.1~100MHz	-1.1
		RL (dB Typ) 30~80MHz	-18~-12
		CMR (dB Typ) 30~100MHz	-42~-30
		X-Talk (dB Typ) 30~100MHz	-42~-35

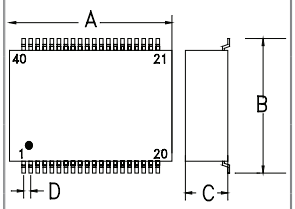
Dimension Ranges (mm±0.3) A = 12.7, B = 9.4, C = 6.0 Max, D = 1.3	TX Turns Ratio	Basic Specs	
Please refer to Figure L.1 above *ALAN- 503, 504	1:1 (For 503) 1:1.41 (For 504)	IL (dB Max) 0.1~100MHz	-1.1
		RL (dB Typ) 30~80MHz	-16~-10
		CMR (dB Typ) 30~100MHz	-40~-35
		X-Talk (dB Typ) 30~100MHz	-45~-35

Dimension Ranges (mm±0.3) A = 17.7~18.7, B = 16.0, C = 4.7~7.6 Max, D = 1.3	TX Turns Ratio	Basic Specs	
 *ALAN- 407, 415	1:1	IL (dB Max) 0.1~100MHz	-1.0
		RL (dB Typ) 30~80MHz	-18
		CMR (dB Typ) 30~100MHz	-25~-30
		X-Talk (dB Typ) 30~100MHz	-43~-33

Dimension Ranges (mm±0.3) A = 17.7, B = 16.0, C = 5.5 (for 1001) & 5.8 (for 1002), D = 1.3	TX Turns Ratio	Basic Specs	
 *ALAN- 1001, 1002	1:1	IL (dB Max) 0.1~100MHz	-1.0
		RL (dB Typ) 30~80MHz	-16~-12
		CMR (dB Typ) 30~100MHz	-43~-33
		X-Talk (dB Typ) 30~100MHz	-45~-35

Abracon offers wide range of RJ45 Integrated Magnetics.....

Dimension Ranges (mm±0.3) A = 20.3~25.4, B = 12.6~17.4, C = 2.2~7.0 Max , D = 2.5	TX Turns Ratio	Basic Specs	
Please refer to Figure L.1 above *ALAN- 501, 502, 107, 108, 113, 117, 133	1:1 1:1.41 (For 502)	IL (dB Max) 0.1~100MHz	-1.0 or -1.1
		RL (dB Typ) 30~80MHz	-22~-20
		CMR (dB Typ) 30~100MHz	-60~-32
		X-Talk (dB Typ) 30~100MHz	-50~-35

Dimension Ranges (mm±0.3) A = 27.9, B = 15.2, C = 5.7, D = 1.3	TX Turns Ratio	Basic Specs	
 *ALAN- 401, 402, 405, 406, 408 thru 414	1:1.41 (For 401, 402) 1:1	IL (dB Max) 0.1~100MHz	-1.1
		RL (dB Typ) 30~80MHz	-21~ -12
		CMR (dB Typ) 30~100MHz	-40~-25
		X-Talk (dB Typ) 30~100MHz	-55~-35

RJ45 INTEGRATED MAGNETICS

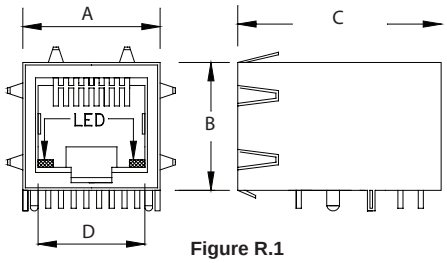


Figure R.1

Features: Tap down RJ45 Lan Magnetics, Meet IEEE802.3 and ANSI X3.263, 350µH OCL with 8mA bias, impedance 100 Ω, Hipot: 1500VRMS
Applications: Telecommunications, high speed ethernet

Dimension Ranges (mm±0.3)	TX Turns Ratio	Basic Specs	
Please refer to Figure R.1 above *ARJ-101,104,105,106, 107,102, 103, 108, 10XX	1:1 (For 101,106, 107,10xx) 1:2 (For 105) 1:1.414 (For 104) 1.414:1 (For 102) 2:1 (For 103) 1:2.5 (For 108)	IL (dB Max) 0.1~100MHz	-1.1
		RL (dB Typ) 30~80MHz	-16~-10
		CMR (dB Typ) 30~100MHz	-45~-35
		X-Talk (dB Typ) 30~100MHz	-40~-38

RJ45 Intergrated Magnetics

CURRENT SENSE TRANSFORMERS

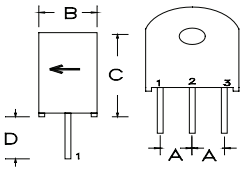
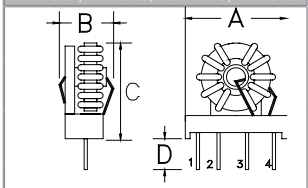


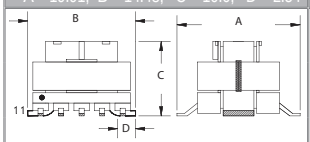
Figure C.1

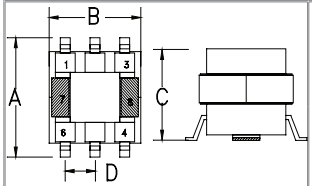
Features: UL94V0 Package, for SMPS (Switching Power Supply)

Dimension Ranges (mm)	OCL Range	Basic Specs	
A = 6.35, B = 10.16, C = 23.4, D = 5.10			
Please refer to Figure C.1 above	5mH	Turns (±2%, Max)	50 (CT)
		DCR (Ω, Max)	0.7
*ACST-001,005		ET(V-µSec, Max)	150
Please refer to Figure C.1 above	20mH	Turns (±2%, Max)	100 (CT)
		DCR (Ω, Max)	1.4
*ACST-002,006		ET(V-µSec, Max)	300
Please refer to Figure C.1 above	80mH	Series V(C.T.)	200 (CT)
		DCR (Ω, Max)	4.5
*ACST-003,007		ET(V-µSec, Max)	600
Please refer to Figure C.1 above	180mH	Turns (±2%, Max)	300 (CT)
		DCR (Ω, Max)	11
*ACST-004,008		ET(V-µSec, Max)	900

Dimensions (mm)	OCL Range	Basic Specs	
A = 7.62 | B = 13.34 | C = 27.31 | D = 6.35			
Please refer to Figure C.1 above	5~2000 mH	Turns (±2%, Max)	50~2000 (CT)
ACST-120		DCR (Ω, Max)	0.7~110

Dimensions (mm)	OCL Range	Basic Specs	
A = 13.97, B = 9.65, C = 14.73, D = 3.43			
	150, 600 OR 4000mH	Turns (±2%, Max)	10, 20, 50
		Secondary DCR (Ω, Max)	0.055, 0.097, 0.24
		Primary DCR (Ω, Max)	0.006
ACST-118		RT(Ω, Max)	1.5, 3.0, 7.5

Dimensions (mm)	OCL Range	Basic Specs	
A = 19.91, B = 14.48, C = 10.0, D = 2.54			
	0.3~ 29mH	Turns (±2%, Max)	20~200
		Secondary DCR (Ω, Max)	1.4~14
		R load (Ω)	0.57~5.72
ACST-11			

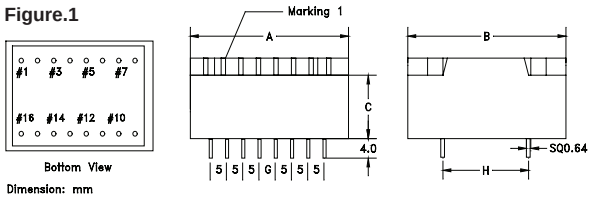
Dimensions (mm)	OCL Range	Basic Specs	
A = 7.8, B = 6.5, C = 6.1, D = 1.85			
	0.6~ 10mH	Turns (±2%, Max)	30~200
		DCR (Ω, Max)	5~33
ACST-112			

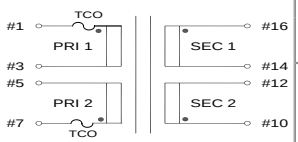
LOW PROFILE ENCAPSULATED TRANSFORMER

RoHS Compliant

Features: Power – 2VA~30VA • Potted under vacuum; Fail-safe for 10~30VA
• Dual Primary, Series or Parallel Secondary (115V/230V, 50/60Hz.)
• Increased Insulation Class – Class B (130°C) • Dielectric strength-3750Vrms
• UL506; TUV: EN61558/EN60950;CE approved
Applications: Medical equipment, test equipment, media and high-end audio equipment, broadcast sound system and other various equipment where high performance transformers are needed.

Figure.1



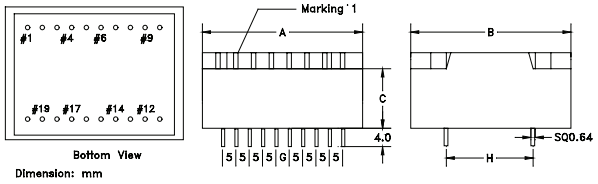


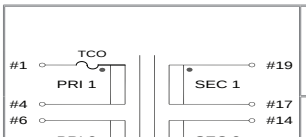
Schematic for ALPT-02~10

Primary (Input)	115V, 60Hz (Pin 1 - Pin 5) (Pins 1, 7 short;Pins 3, 5 short)	
	230V 50Hz (Pin 1-Pin 5) (Pins 3, 7 short)	
Secondary (Output)	In Series (Pin 10 -Pin 14) (Pins 12, 16 short)	
	In Parallel (Pin 10-Pin 14) (Pins 10,16 short;Pins 12,14 short)	

Dimension Ranges (mm)	Power	Basic Specs	
A =43.5, B = 52.5 , C =17.0~ 28.0, G = 5.0, H = 35.0			
Please refer to Figure.1 above	2.0VA~10VA	Series V(C.T.)	10~330
		Series mA (RMS)	1.0~330
		Parallel V(C.T.)	5~115
*ALPT-02,03,04,06,08,10		Parallel mA (RMS)	1.6~52

Figure.2

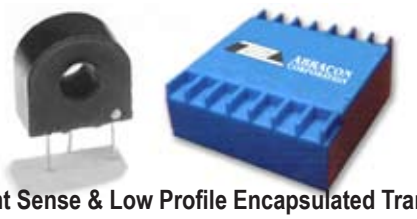




Schematic for ALPT-14~30

Primary (Input)	115V, 60Hz (Pin 1 - Pin 6) (Pins 1, 9 short; Pins 4, 6 short)	
	230V 50Hz (Pin 1-Pin 6) (Pins 4, 9 short)	
Secondary (Output)	In Series (Pin 12 -Pin 17) (Pins 14, 19 short)	
	In Parallel (Pin 12 -Pin 17) (Pins 12,19 short;Pins 14,17 short)	

Dimension Ranges (mm)	Power	Basic Specs	
A =57.0, B = 68, C =24~35, G = 6.0~65.0, H =45			
Please refer to Figure.2 above	14VA~30VA	Series V(C.T.)	10~330
		Series mA (RMS)	1.4~0.13
		Parallel V(C.T.)	5~115
*ALPT-14,18,24,30		Parallel mA (RMS)	2.8~0.26



Current Sense & Low Profile Encapsulated Transformer

STANDARD ENCAPSULATED POWER TRANSFORMER

AEPT-0XRX-XXX

Features: Dual Primary, Series or Parallel Secondary (115V/230V, 50/60Hz), Class B insulation (130ºC), Fully encapsulated, greater VA to volume ratio, High ambient temperature (70 ºC), Dielectric Strength(3750Vrms), Potted under vacuum, UL506, CE, TUV: EN61558/EN60950 approved
Applications: Medical equipment, test equipment, media and high-end audio equipment, broadcast sound system

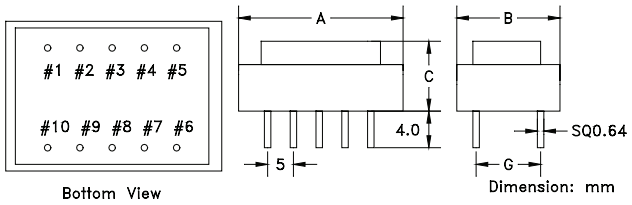
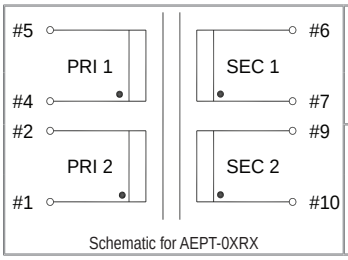


Figure.2



Schematic for AEPT-0XRX

Primary (Input)	115V, 60Hz (Pin 1 - Pin 5) (Pins 1, 4 short; Pins 2, 5 short)
	230V 50Hz (Pin 1 - Pin 5) (Pins 2, 4 short)
Secondary (Output)	In Series (Pin 7 -Pin 9) (Pins 6, 10 short)
	In Parallel (Pin 7 -Pin 9) (Pins 7,10 short;Pins 6, 9 short)

Dimensions (mm)				Power	Secondary Rating			
					V	mA	V	mA
AEPT-00R6 Please refer to Figure.2 above				0.6VA	2 X 6	50	2 X 12	25
					2 X 7.2	42	2 X 15	20
A	B	C	G		2 X 9	33	2 X 18	17
32.6	27.6	15.2	20.0		2 X 10	30	2 X 24	12

Dimension Ranges (mm)				Power	Secondary Rating			
					V	mA	V	mA
*AEPT-01R0, 01R2, 01R5 Please refer to Figure.2 above				1.0~1.5VA	2 X 6	83~125	2 X 12	42~62
					2 X 7.2	69~104	2 X 15	33~50
A	B	C	G		2 X 9	56~83	2 X 18	28~42
32.3	27.3	21.3	20.0		2 X 10	50~75	2 X 24	21~31

Dimension Ranges (mm)				Power	Secondary Rating			
					V	mA	V	mA
*AEPT-01R8, 02R1, 02R3,02R8 Please refer to Figure.2 above				1.8V~2.8A	2 X 6	150~233	2 X 12	75~116
					2 X 7.2	125~194	2 X 15	60~93
A	B	C	G		2 X 9	100~155	2 X 18	50~77
32.6	27.6	27.8	20.0		2 X 10	90~140	2 X 24	38~58

STANDARD ENCAPSULATED POWER TRANSFORMER

AEPT-0RXX-XXX

Features: Primary (115V, 50/60Hz), Class B insulation (130ºC), Fully encapsulated, greater VA to volume ratio, High ambient temperature (70 ºC), Potted under vacuum, UL506, CE, TUV: EN61558/EN60950 approved
Applications: Medical equipment, test equipment, media and high-end audio equipment, broadcast sound system

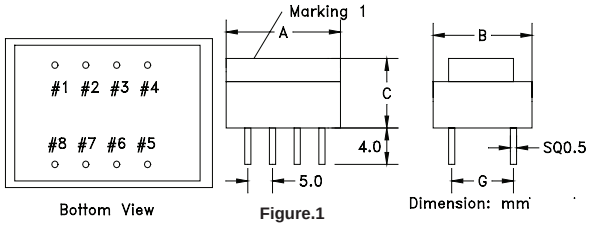
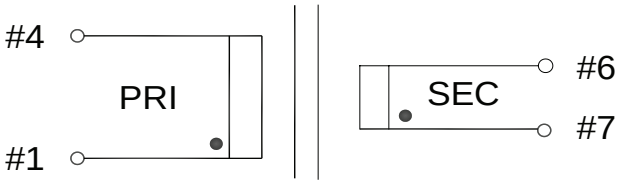


Figure.1



Schematic for AEPT-XRXX-XXX

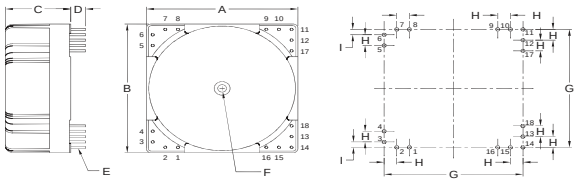
Dimensions (mm)				Power	Secondary Rating			
					V	mA	V	mA
AEPT-0R35 Please refer to Figure.1 above				0.35VA	6	58	12	29
					8	44	15	23
A	B	C	G		9	39	18	19
22.0	23.0	15.0	15.0		10	35	24	14
AEPT-0R50 Please refer to Figure.1 above				0.5VA	6	83	12	42
					8	63	15	33
A	B	C	G		9	55	18	28
22.0	23.0	19.0	15.0		10	50	24	21

Transformer

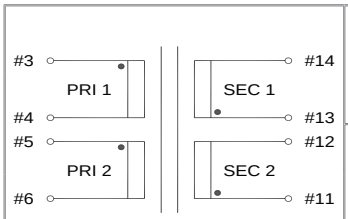
TOROIDAL ENCAPSULATED TRANSFORMER 50/60Hz, 115/230 VAC, ENCAP

RoHS Compliant

Features: : • Power – 1.6VA to 85VA • Low profile; High efficiency
• Dual Primary, Series or Parallel Secondary – 115V/230V, 50/60Hz
• Fully encapsulated; magnetically shielded • Low standby current
• Safety approved-UL506,UL5085-1&2; UL6500/UL60065
• High ambient operating temperature (+60°C maximum) • Insulation Class – Class F (155°C); Dielectric Strength – 4000Vrms
Applications: Medical equipment, Test equipment, Media & high-end audio equipment, Broadcast sound systems and other various devices where low standby current and high efficiency are critical



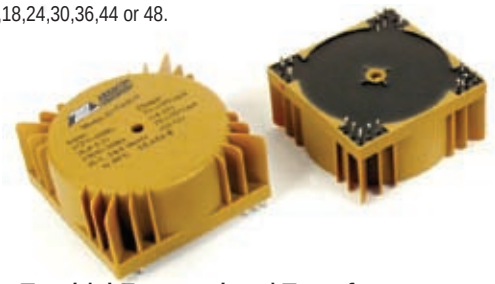
Dimensions (mm): A=40~100.0, B=18.5~42.0, G=35.56~91.44, H=5.08 except H=7.62 for 65VA and 85VA



Primary (Input)	115V, 60Hz (Pin 3 - Pin 6) (Pins 3, 5 short; Pins 4, 6 short)
	230V 50Hz (Pin 3 -Pin 6) (Pins 4, 5 short)
Secondary (Output)	In Series (Pin 11 -Pin 14) (Pins 12, 13 short)
	In Parallel (Pin 11 -Pin 14) (Pins 11,13 short;Pins 12,14 short)

P/ n	Power	Series		Parallel		Weight
ACTT-	VA	V	A (RMS)	V	A (RMS)	(g) approx.
0016-12	1.6	12	0.133	6	0.266	80
0016-14		14	0.114	7	0.228	
0016-18		18	0.089	9	0.178	
0016-24		24	0.067	12	0.134	
0016-30		30	0.053	15	0.106	
0016-36		36	0.044	18	0.088	
0016-44		44	0.036	22	0.072	
0016-48		48	0.033	24	0.066	
0032-xx	3.2	xx	0.266~0.066	xx/2	0.532~0.132	110
0050-xx	5.0	xx	0.416~0.104	xx/2	0.832~0.208	140
0070-xx	7.0	xx	0.583~0.145	xx/2	1.166~0.290	170
0100-xx	10.0	xx	0.833~0.208	xx/2	1.666~0.416	230
0150-xx	10.5	xx	1.250~0.312	xx/2	2.500~0.624	300
0250-xx	25.0	xx	2.083~0.520	xx/2	4.166~1.040	400
0350-xx	35.0	xx	2.916~0.729	xx/2	5.832~1.458	560
0500-xx	50.0	xx	4.166~1.041	xx/2	8.332~2.082	760
0650-xx	65.0	xx	5.416~1.354	xx/2	10.832~2.708	980
0850-xx	85.0	xx	7.083~1.770	xx/2	14.166~3.540	1300

1) Unused pins are omitted for standard parts. Unused pins can be provided on request.
2) Pin positions #1, 8, 9, 16,17 & 18 are invalid for the 1.6VA series.
3) 1.6VA to 25VA series – blind center hole; 35VA to 85VA series – through center hole.
4) xx is 12,14,18,24,30,36,44 or 48.

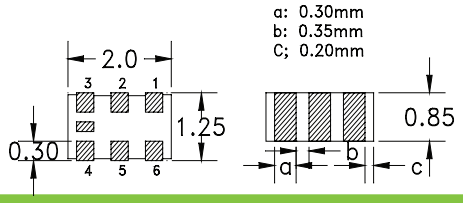


Toroidal Encapsulated Transformer

MULTILAYER CHIP BALUN AMCB21

RoHS Compliant

1: Unbalanced 2: DC or GND
3: Balanced Port 4: Balanced Port
5: GND 6: NC

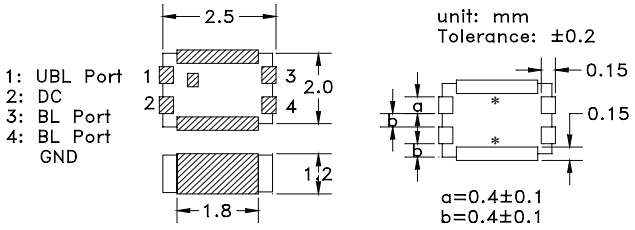


Features: • Phase difference of 180±10 degrees
• Amplitude difference of 0.5 dB max
• Can simplify the complex tuning and circuit design
• Low insertion loss and high attenuation
• Small size (0805) SMD chip design
Applications: • WLAN, Bluetooth, GSM
• Wireless Communication

Part No.	AMCB21-2450-01
Unbalance Port Impedance	50Ω
Balance Port Impedance	100Ω (50Ω+50Ω)
Frequency Range	2400~2500MHz
Insertion Loss	≤1.2dB
Center Frequency	2450MHz
V.S.W.R at Unbalance Port	≤2.0 (2.4~2.5 GHz)
Amplitude Difference	≤0.5dB
Phase difference	180±10 Deg.

MULTILAYER CHIP BALANCE EMI FILTER

Features: • Phase difference 180±10 degrees
• Amplitude difference of 0.5 dB max
• Can simplify the complex tuning and circuit design
• Low insertion loss and high attenuation
• Small size SMD chip design
Applications: • WLAN, Bluetooth, GSM
• Wireless Communication



Part No.	AMBF22-2450-01	AMBF22-2450-06
Unbalance Port Impedance	50Ω	50Ω
Balance Port Impedance	100Ω (50Ω+50Ω)	36+j73
Center Frequency	2450.0 MHz	2450.0 MHz
Insertion Loss	≤3.0dB (at 25°C±5°C)	≤3.0dB (at 25°C±5°C)
	≤3.3dB (at -40°C~85°C)	≤3.5dB (at -40°C~85°C)
Band Width	2400~2500 MHz	2400~2500 MHz
V.S.W.R at Unbalance Port (in BW)	≤2.0 (2400~2500 MHz)	≤2.0 (2400~2500 MHz)
Attenuation	≥48 (880~960 MHz) ≥40 (1880~1990 MHz) ≥25 (2110~2170 MHz) ≥30 (4800~5000 MHz)	≥48 (880~960 MHz) ≥40 (1880~1990 MHz) ≥25 (2110~2170 MHz) ≥30 (4800~5000 MHz)
Phase difference	180±5 Deg.	180±5 Deg.

Abracon Competitor Cross Reference Guide-I

Category	Abracon Series	L(or Z) Range	Idc (A)	Competitor 1	Cross Series	Competitor 2	Cross Series	Competitor 3	Cross Series
Thin Film Inductor	ATFC-0201	1~10nH	0.3~0.08	Murata	LQP03T	KOA	KL731H	Susumu	HPL0603
	ATFC-0402	0.2~33nH	0.8~0.07	Murata	LQP15M	KOA	KL731E	Susumu	HPL1005
	ATFC-0603	1.0~100nH	0.8~0.1	Murata	LQP18M	KOA	KE731J	Susumu	TFL0816
Multi-layer Ceramic Chip Inductor	AIMC-0201	1~18nH	0.17~0.15	TDK	MLG0603S	Taiyo Yuden	HK0603	TOKO	LLV0603F
	AIMC-0201			Samsung	CIH03T				
	AIMC-0402	1~120nH	0.15~0.04	TDK	MLK1005S	Taiyo Yuden	HK1005	TOKO	LL1005FHL
	AIMC-0402			Panasonic	ELJRF	KOA	MHL-1E	Sumida	SCI-B1005
	AIMC-0402			Murata	LQG15H	Cal-Chip	GHF1005	Vishay Dale	ILC0402
	AIMC-0402			Samsung	CISH05T	EPCOS	SIMID0402A	Fair-rite	220402-C
	AIMC-0603	1~270nH	0.3~0.05	TDK	MLG1608	Taiyo Yuden	HK1608	TOKO	LL1608FSL
	AIMC-0603			Panasonic	ELJRE	KOA	HK1608	Sumida	SCI-B1608
	AIMC-0603			Murata	LQG18H	EPCOS	SIMID0603C	Steward	IH0603
	AIMC-0603			Samsung	CIH10	Vishay Dale	IFC-0603	Fair-rite	220603-C
	AIMC-0805	1.5~470nH	0.6~0.3	Panasonic	ELJND	Taiyo Yuden	HK2125	TOKO	LL2012FH
	AIMC-0805			Samsung	CIH21	Vishay Dale	IFC-0805		
Multi-layer Ferrite Chip Inductor	AIML-0402	0.047~10µH				Taiyo Yuden	LK1005		
	AIML-0603	0.047~33µH	0.5~0.005	TDK	MLF1608A	Taiyo Yuden	LK1608	Samsung	CIL10
	AIML-0805	0.047~100µH	0.3~0.002	Murata	LQM21	Taiyo Yuden	LK2125	Samsung	CIL21
	AIML-0805			WÜRTH	7447903	Vishay Dale	ILSB0805	TDK	MLF2012A
	AIML-1206	0.047~220µH	0.3~0.002	Vishay Dale	ILSB1206	Taiyo Yuden	LK3216	Samsung	CIL31
Ceramic (Ferrite) Wire Wound Chip Inductor	AISC-0402	1.0~150nH	1.36~0.08	Coilcraft	0402CS	KOA	KQT0402	Murata	LQW15A
	AISC-0402			Panasonic	ELJRF	Vishay Dale	IMC040	Bourns	
	AISC-0603	1.8~390nH	0.7~0.12	Coilcraft	0603CS	KOA	KQ0603	TOKO	LLQ1608
	AISC-0603			Murata	LQW18A	PE	PE-0603CD	WÜRTH	7447611xx
	AISC-0805	2.2~1,000nH	0.6~0.15	Coilcraft	0805CS	KOA	KQ0805	TOKO	LLQ2012
	AISC-0805F	1~68µH	0.25~0.05	coilcraft	0805LS	EPCOS	B82498-B		
	AISC-1008(F)	0.0047~10µH	1.0~0.15	Coilcraft	1008CS/HS	KOA	KQ1008		
	AISC-1008S	1.0~1,000µH	2.0~0.11	Coilcraft	1008PS				
	AISC-1206	0.0033~1.2µH	1.0~0.3A	Coilcraft	1206CS				
Molded Wire Wound Chip Inductor	AISM-0805	0.12~10µH	1.1~0.18	Panasonic	ELJ-ND	Vishay Dale	IMC0805		
	AISM-1008	0.22~100µH	0.19~0.06	Panasonic	ELJFC	Taiyo Yuden	LEM2520	TDK	NLV25
	AISM-1210	0.1~470µH	0.45~0.025	Panasonic	ELJFA	EPCOS	B82422	TDK	NLV32
	AISM-1210H	1.0~330µH	0.85~0.06	Panasonic	ELJ-EA	Vishay Dale	IMC-1210	TDK	NLCV32
	AISM-1812	0.1~1000µH	0.8~0.03	Panasonic	ELJFB	Coilcraft	1812CS	TDK	NL4532
	AISM-1812H	1.0~330µH	1.05~0.09			Vishay Dale	IMC-1812	TDK	NL(C)4532
	AISM-2220	0.1~1000µH	1.8~0.085					TDK	NLC5650

** This cross reference sheet is for reference only. Abracon will not be liable any error, omission, misstatements and incomplete data. For updated information please visit our website www.abracon.com or call 949-546-8000*

Abracon Competitor Cross Reference Guide-II

Category	Abracon Series	L(or Z) Range	Idc (A)	Competitor 1	Cross Series	Competitor 2	Cross Series	Competitor 3	Cross Series
SMD Air Coil	AIAC-3625	4.5~86.4nH		PPC	11591				
	AIAC-1512C	2.5~18.5nH	4	Coilcraft	AxxT				
	AIAC-2712C	17.5~43nH	4	Coilcraft	BxxT				
	AIAC-2015C	22~120nH	3.0~1.5	Coilcraft	1812MS				
	AIAC-4125C	90~538nH	4.0~1.5	Coilcraft	132-xxSM				
Axial Thru Hole Inductor	AIAM	0.022~1000µH	2.4~0.028	Delevan	1025/0925				
	AIAS	0.1~100000µH	2.9~0.022	JW Miller	9230	Vishay Dale	IMS5/812		
	AICC	0.022~100µH	1.38~0.064	Fastron	MICCS	Vishay Dale	IR-2		
	AIAP	1~12000µH	16~0.5	Coilcraft	PCH-27				
Toroidal Power Inductor Transformer	AICT	10~1000µH	1.7~0.5	API Delevan	PT 2727				
	AIMT	5~960µH	10~0.5	Bourns	2100HT	Vishay Dale	TJ,TD, TE		
	ALFT-1926V			Delta	30H				
	APT-1313			Coiltronics	VP1				
	APT-0908			Halo	TGM-2xxNx				
	AITC-234	10~500µH	2.2~0.5	Pulse	P0144~0153				
	ASTC-05	3.3~33.79µH	4.5~1.4	Pulse	P0395~0402	API Delevan	LLST		
Radial Power Inductor	AIRD	1.0~4700µH	116~1.7	Coilcraft	PCV,DC				
	AIRD-5138	33µH		Renco	RL-8392				
	AIRD-3838	310µH		Renco	RL-8391				
	AIUR-01	1~27000µH	14.2~0.03	Sumida	RCH, RCR	TOKO	8RB,10RB		
	AIUR-11	3.9~15,000µH	6.8~0.1	Coilcraft	DR0810	Bourns	6000	Bourns	RLB0914
SMD Unshielded Power Inductor	AISC-1206H	0.15~100µH	0.25~0.045			Murata	LQH31C		
	AISC-1210H	0.15~680µH	4.4~0.04	Coilcraft	ME3220	Murata	LQH32M/C		
	AISC-1812H	1.0~2200µH	1.08~0.03	Coilcraft	1812LS	Murata	LQH43C		
	AISC-2220H	1.0~1000µH	13~0.01			Murata	LQH55D		
	ASPI-0302	1.0~180µH	2.1~0.15	Sumida	CD32				
	ASPI-0403	1.0~56µH	3.8~0.46	Sumida	CD43	Bourns	SDR0403		
	ASPI-0504	10~220µH	1.44~0.35	Sumida	CD54	Vishay Dale	IDCP2218		
	ASPI-0703	10~680µH	1.44~0.27	Sumida	CD73				
	ASPI-0705	1.0~470µH	2.3~0.34	Sumida	CD75				
	ASPI-1004	10~560µH	2.38~0.32	Sumida	CD104				
	ASPI-1005	10~1000µH	2.6~0.22	Sumida	CD105				
	ASPI-xxxxHC	0.33~270µH	20~0.08	Coilcraft	DOxxxxH(C)	Coiltronics	UP4B		
	ASPI-0402T	1.0~1000µH	2.9~0.1	Coilcraft	DO1608C	Pulse	P0770NL		
	ASPI-0802T	10~1000µH	2.4~0.1	Coilcraft	DO3308P				
	ASPI-0804T	1.0~2700µH	9~0.2	Coiltronics	UP2B	EPCOS	B82464-A4	Midcom	DUS-5121
	ASPI-0810T	4.7~2700µH	10~0.1	Coilcraft	DO3340P				
	ASPI-1306T	1.0~1000µH	20~1.0	Coilcraft	DO5022P				
	ASPI-561x	2.2~1000µH	2.2~0.1	Panasonic	ELC5F	Samsung	SD541X		
	ASTP-9428			Coiltronics	UP2.B				
	ASTP-6150			Coiltronics	UP1B				

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Abracon Competitor Cross Reference Guide-III

Category	Abracon Series	L(or Z) Range	Idc (A)	Competitor 1	Cross Series	Competitor 2	Cross Series	Competitor 3	Cross Series
SMD Shielded Power Inductor	ASPI-0315S	3.3~47µH	0.8~0.21	Panasonic	ELL4GM				
	ASPI-0428S	1.2~180µH							
	ASPI-0503S	2.5~470µH	2.6~0.2	Sumida	CDRH5D18				
	ASPI-0602S	3.0~100µH	3.0~0.54	Sumida	CDRH6D28				
	ASPI-0703S	3.3~1000µH	1.9~0.16	Coiltronics	DR73	Sumida	CDRH73	TOKO	D73C
	ASPI-0704S	10~1000µH		Coiltronics	DR74	Sumida	CDRH74	TOKO	D75C
	ASPI-104S	1.0~330µH	13.6~0.7	Coilcraft	MSS1038	Sumida	CDRH104		
	ASPI-1205S	1.0~1000µH	8.0~0.4	Coilcraft	MSS1260	Sumida	CDRH125	EFMRS	XFTPRH1205
	ASPI-1207S	1.0~1000µH	14~0.55	Coilcraft	MSS1278	Sumida	CDRH127	Wuerth	7447702
	ASPI-0403S		3.0~0.02	Coilcraft	DT1608C				
	ASPI-1306S	10~1000µH	8.0~0.8	Coilcraft	DS5022				
	ASPI-1338	0.1~10µH	84~14	Vishay Dale	IHLP5050 CE		IHLP5050 CE		IHLP5050 CE
	ASPI-1367	1.0~10µH		Vishay Dale	IHLP5050 FD	Vishay Dale	IHLP5050 FD	Vishay Dale	IHLP5050 FD
	ASPI-xDxx	1.2~47µH	1.8~0.28			Sumida	CDRHxDxx		
	ASPI-4118	0.22~4.3µH	18~5.0			Sumida	CDEP104L/S		
	ASPI-4122	0.15~8.8µH	19~4.9			Sumida	CDEP105x		
	ASPI-5123	0.4~10.0µH	18.5~5.0	Coilcraft	SER1360	Sumida	CEP125		
	ASPI-06P	1.0~10.0µH	60~7.0						
	ALPI	1.2~1500µH	8.2~0.26						
Common Mode Chokes	ACM-21	30~370µH		TDK	ACM2012D	Steward	CM0805		
	ALFT-0x	0.4~105mH	3~0.2	Coilcraft	Q4007/4018	Sumida	LF2xxx	Murata	LQN6C
	ALFT-01	2.5~35mH	2.0~0.5			Panasonic	ELF18N		
	ALFT-04	0.24~10mH	20~8	Coilcraft	DMT1	Panasonic	ELF16M		
	ALFT-10	0.58~50mH	13~2.3	Coilcraft	DMT2				
	ALFT-9	0.82~33mH	2.0~0.3			Sumida	UU16LFNP		
	ALFT-18	0.4~4.5mH	10~2.0			Sumida	PFC2225B		
	ASTC-01	0.42~300µH	5.5~0.32	Coilcraft	CTXxxx-1(P)	API Delevan	4501		
	ASTC-1B	0.54~300µH	5.9~0.42	Coilcraft	CTXxxx-2(P)				
	ASTC-2B	0.46~300µH	6.2~0.5	Coilcraft	CTXxxx-3(P)				
	ASTC-04	0.46~300µH	7.0~0.62	Coilcraft	CTXxxx-4(P)	API Delevan	4448		
EMI Suppression Ferrite Chip Bead	ACML-0402	5~1500Ω	0.5~0.06	Murata	BLM15	Steward	LI0402B		
	ACML-0603	5~2500Ω	0.7~0.05	Murata	BLM18R			Vishay Dale	ILBB-0603
	ACML-0603H	5~600Ω	2.0~0.8	Murata	BLM18PG	Steward	MI0603	Taiyo Yuden	BKP1608HS
	ACML-0805	7~2000Ω	2.2~0.5	Murata	BLM21			Vishay Dale	ILBB-0805
	ACML-0805H	7~1000Ω	4.0~1.0	Murata	BLM21PG	Steward	MI0805	Murata	BLM21PG
	ACML-1206	7~3000Ω	2.5~0.2	Murata	BLM31	Steward	HZ1206	Vishay Dale	ILBB-1206
	ACML-1206H	11~2000Ω	4.0~0.7	Murata	BLM31P	Taiyo Yuden	FBMH3216	Murata	BLM31P
LAN Magnetics	ALAN-xxx			Pulse	Hxxxx				
	ALAN-1209			Halo	TG54-1006N				
	ARJ			Pulse	J0011	Delta	RJS-1x08T		
Toroidal Encap. EI Encap. UI Pulse XFT	ACTT-0xxx	1.6~85VA							
	AEPT-0xxx	0.35~2.8VA		Pulse	030-53xx~77xx				
	ALPT-xx	2.0~30VA		Pulse	030-50xx~70xx				
	APT-xxx	6~24pins		Pulse	PE-6xxxx	Halo	TG110		

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Frequency Control Products

Resonators

SMD Crystals

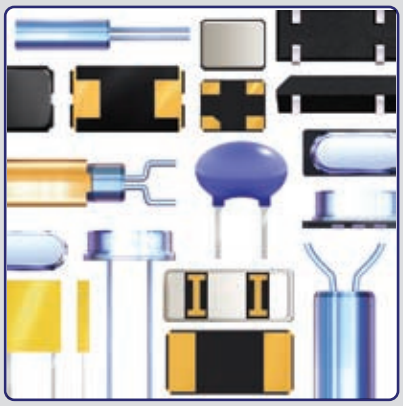
Tuning Fork Crystals

Thru- Hole Crystals

Thru- Hole Tuning Fork Crystals

SAW Resonators

SMD & Thru- Hole Ceremic Resonators



Oscillators

SMD Oscillators

Thru- Hole Oscillators

SMD VCXO's

Low Phase Noise VCXO'S

SMD TCXO's & TCVCXO's

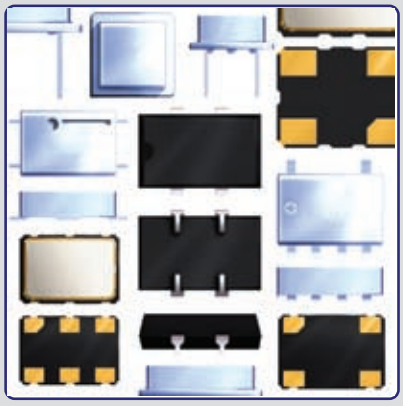
SMD & Thru- Hole Ceremic Programmables

SMD & Thru- Hole Low EMI (Spread Spectrum)

MEMS Oscillators

OCXO's

Straum III VCTCXO



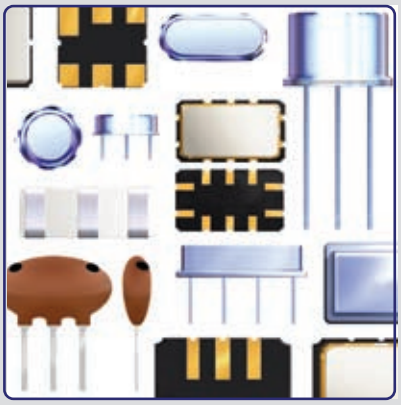
Filters

Cereamic Filters

SMD & Thru Hole MCF's

Dielectric Filters

SAW Filters (AFS Series)



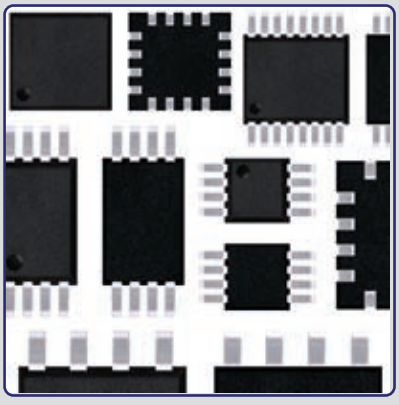
Silicon Oscillators

Voltage Controlled Frequency Source

Reference Frequency Clock

Signal Conditioning

Clock Distribution



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For more information, or to see a complete listing of our products, please contact us:

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