

Model NO : Common Mode Inductor /choke

Features & Application

- * Separated windings for minimum interwinding capacitance
- * Single layer windings for highest common mode impedance over the widest frequency range
- * OR wound on nylon casing to protect windings
- * Spacer provides 1-3 mm creepage distance for UL, CSA, IEC compliance
- * All materials used are UL94-VO recognized
- * Operating temperature: - 40 °C to + 105 °C. Suitable for 50hz to 500 KHz
- * Available in both vertical or horizontal mount
- * Application includes power line filtering, EMI/RFI for switch mode power sup
- * Available in vertical header mount for ease in PCB assembly
- * Easy FR—4 board mounting Good vibration resistance



Electrical characteristics

Header Mounted Toroidal Common Mode Line Chokes

Part NO. #TOD-L-(A)	Inductance	Max D.C. Resistance	Current Rating	Mounting	Dimension (mm) coil size code AxBxC
#T310-280-13	0.280 mH	2.9 milli-ohm	13 A	Horizontal	38x38x19
#T250-425-8	0.425 mH	4.26 mill-ohm	8A	Vertical	32x30x21
#T310-580-13	0.580 mH	10 milli- ohm	13 A	Vertical	38x38x18
#T250-1000-8	1.000 mH	0.02 ohm	8A	Vertical	30x28x13
#T220-1000-3.2	1.000 mH	15.3milli-ohm	3.2 A	Vertical	26x26x17
#T220-1500-2	1.500 mH	18.0 milli-ohm	3.2 A	Vertical	26x26x18
#T220-1800-5	1.800 mH	0.05 ohm	5A	Horizontal	26x28x18
#T220-2200-5	2.200 mH	0.04 ohm	5A	Vertical	26x26x19
#T250-3500-1.5	3.500 mH	80.0 milli-ohm	1.5 A	Horizontal	30x32x16
#T250-3700-4	3.700 mH	0.07 ohm	4A	Vertical	30x32x17
#T310-7200-2.5	7.200 mH	93.0 milli- ohm	2.5 A	Horizontal	38x40x18
#T310-11000-1.5	11.000 mH	184.0 milli- ohm	1.5 A	Vertical	40x40x19

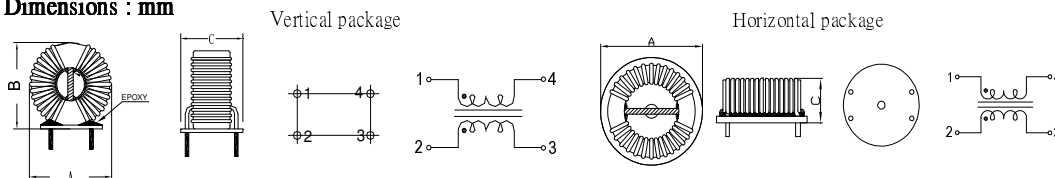
Low Profile, Small Size Common Mode Choke

Part NO. #TOD-L-(A)	Inductance	Max DC Resistance	DC Current Rating	Mounting	Dimension (mm) coil size code AxBxC
#T220-1180-7.5	1.180 mH	12.5 milli ohms	7.5 Amps	Horizontal	26x28x20
#T220-65-23.5	65.000 uH	0.9 milli-ohms	23.5 Amps	Vertical	26x26x18
#T220-100-19	100.000 uH	1.3 milli ohms	19 Amps	Vertical	28x26x18
#T220-180-15	180.000 uH	2.5 milli ohms	15 Amps	Vertical	26x26x20
#T220-470-12	470.000 uH	4.0 milli ohms	12 Amps	Vertical	28x26x18
#T220-880-9	880.000 uH	6.5 milli ohms	9 Amps	Horizontal	28x30x20

High Current Common Mode Line Chokes

Part NO. #TOD-L-(A)	Inductance	Max D.C. Resistance	Rated Current	Mounting	Dimension (mm) coil size code AxBxC
#T310-100-30	0.100 mH	3.0 milli-ohms	30 Amps	Horizontal	38x40x18
#T310-100-30A	0.100 mH	3.0 milli-ohms	30 Amps	Vertical	36x36x15
#T310-150-20	0.150 mH	3.4 milli-ohms	20 Amps	Horizontal	36x36x16
#T310-150-20A	0.150 mH	3.4 milli-ohms	20 Amps	Vertical	38x38x18
#T310-150-30	0.150 mH	3.5 milli-ohms	30 Amps	Vertical	38x38x19
#T250-200-15	0.200 mH	5 milli-ohms	15 Amps	Horizontal	30x28x15
#T310-200-18	0.200 mH	5 milli-ohms	18 Amps	Horizontal	36x36x16
#T310-200-15A	0.200 mH	5 milli-ohms	15 Amps	Vertical	38x38x18
#T250-200-18	0.200 mH	5 milli-ohms	18 Amps	Vertical	30x28x15
#T250-300-15	0.300 mH	7.3 milli-ohms	15 Amps	Horizontal	30x32x18
#T250-300-15A	0.300 mH	7.3 milli-ohms	15 Amps	Vertical	30x28x17
#T250-600-9	0.600 mH	10 milli-ohms	9 Amps	Horizontal	30x30x18
#T250-600-9A	0.600 mH	10 milli-ohms	9 Amps	Vertical	30x28x19

Dimensions : mm



Notes:

- 1) Inductance is minimum per winding tested at 20KHz 1V.
- 2) Rdc is maximum per winding.
- 3) SRF is minimum for each winding.
- 4) Parts are designed for 40°C MAX temperature rise at the rate current.Specification might be changed due to under developing and improving.

Model NO : Magnetic amplifiers (Mag-Amp)**Features & Application**

- * Selmag Toroid Low Cost Saturable Reactor Mag Amp coil (encapsulated) to regulate way of providing control on the secondary side of the auxiliary outputs in mutiple-output switching power supplies
- * Operating at Frequency from 20KHz to over 100 KHz.
- * Nano-Based amorphous core and Co-Base amorphous core are
 - ◇ Good high-frequency characteristic
 - ◇ Low coercive force and high squareness ratio
 - ◇ Low core loss
 - ◇ Low temperature raising and good temperature stability (-55°C~120°C)
- * The characteric make the alloy must idea of SMPS application,
- * Higher efficiency than linear regulators, especially at higher currents Available in 1 Amp and 5 Amp versions
- * Custom versions with other current or volt-time ratings available

**Electrical characteristics****STAND DIMENSION & SPECIFICATION****1) AMSA SERIES MAG-AMP**

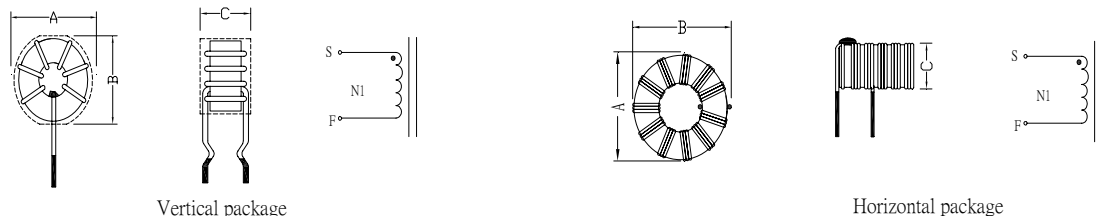
Part number	Core Dimensions OD/ID/HT	Finished Dimensions AxBxC	winding spec(REF)	Output current(A)	Squareness ratio Br/Bm	Coercive force field HC(A/M)
#AMSA-11S-LT5	14-6.6-6.3	19-19-11	Ø1.0mm*2p*5Ts	6-18A	0.93MIN	20max
#AMSA-12S-LT5	14-6.6-6.4	21-19-11	Ø1.4mm*1p*5Ts	10-25A	0.93MIN	20max
#AMSA-15S-LT4	16.9-8.6-6.5	22-22-11.5	Ø1.3mm*2p*4Ts	15-30A	0.93MIN	20max
#AMSA-15A-LT10	16.7-10.5-6.3	20.19-9.5	Ø0.6mm*4p*10Ts	15-30A	0.93MIN	20max
#AMSA-18S-LT7	19.8-10.4-6.4	26-26-13	Ø1.2mm*2p*8Ts	20-35A	0.93MIN	20max
#AMSA-13B-LT12	14.7-7.8-4.6	22-20-13	Ø1.2mm*1p*12Ts	13-30A	0.93MIN	20max

2) AMSN SERIES MAG-AMP

Part number	Core Dimensions OD/ID/HT	Finished Dimensions AxBxC	winding spec	Output current(A)	Squareness ratio Br/Bm	Coercive force field HC(A/M)
#AMSN-11S-LT6	14-6.6-6.3	20-19-12	Ø1.2mm*1p*6Ts	6-19A	0.9MIN	38MAX
#AMSN-11S-LT7	14-6.6-6.3	20-20-12	Ø1.0mm*2p*7Ts	6-19A	0.9MIN	38MAX
#AMSN-13B-LT7C	14.7-7.8-4.6	20-19-11	Ø0.9mm*2p*7Ts	15-30A	0.9MIN	38MAX
#AMSN-15S-LT5	16.9-8.6-6.5	22-20-12	Ø1.3mm*2p*5Ts	18-33A	0.9MIN	38MAX
#AMSN-18S-LT8	19.8-10.4-6.4	25-25-11	Ø1.3mm*2p*8Ts	25-35A	0.9MIN	38MAX

3) ACL SERIES MAG-AMP(LOW COST)

Part number	Core Dimensions OD/ID/HT	Finished Dimensions AxBxC	winding spec	Output current(A)	Squareness ratio Br/Bm	Coercive force field HC(A/M)
#ACL-1404FT4	14.4-6.5-6.9	19-19-13	Ø1.2mm*2p*4Ts	10-20A	0.85min	40MAX
#ACL-1404FT4D	14.4-6.5-6.9	20-25-13	Ø1.2mm*2p*4Ts	10-20A	0.85min	40MAX
#ACL-1404FT6A	14.4-6.5-6.9	20-20-12	Ø1.0mm*2p*6Ts	10-20A	0.85min	40MAX
#ACL-1503FT8	15.3-6.5-5.7	18-18-10	Ø0.8mm*2p*8Ts	10-25A	0.85min	40MAX
#ACL-1204FT8	12.3-5.6-7	16-14-11	Ø1.0mm*1p*8Ts	8-18A	0.85min	40MAX
#ACL-1604FT7	15.6-7.9-7	20-18-10.5	Ø1.0mm*1p*7Ts	10-24A	0.85min	40MAX
#ACL-1906F1T5	18.9-7.8-8.5	23-21-13	Ø1.2mm*2p*5Ts	25-35A	0.85min	40MAX
#ACL-1603FT6	15.5-7.5-7	24-22-14	Ø0.6mm*4p*6Ts	10-20A	0.85min	40MAX

Dimensions : mm

Vertical package

Horizontal package

Notes:

- 1) Ambient temperature range: -40°C to +85°C
- 2) Storage temperature range: -55°C to +80°C
- 3) Electrical specifications at 25°C.
- 4) All insulating materials 130°C or higher.

Model NO : Differential Mode Output Power Inductor / Choke

Features & Application

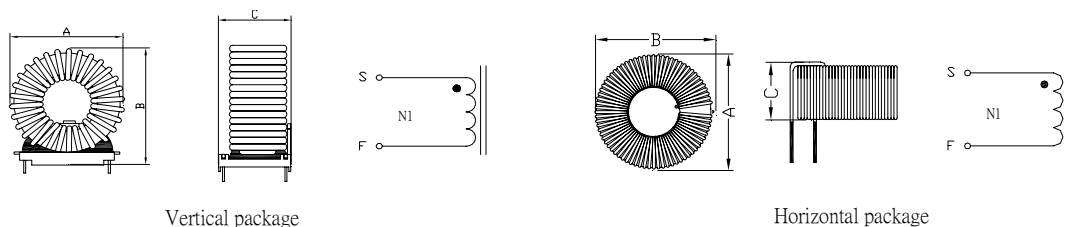
- * Selmag differential mode choke standard suitable EMI suppression for switching power supply
- * High Inductance, small size, minimal external magnetic field
- * Designed for any application requiring a high DC current bias such as output chokes in switching power supplies
- * Designed with MPP, High Flux, Sendust/Koolmu
- * All insulating (header) materials rated for 130°C or higher
- * 200 °C class insulated solid wires are used
- * Vertical and horizontal Base layout are available to fit the mechanical equipment of designer.
- * All plastic materials UL94V-0 approved
- * Mounted on header / base for easy assembly on PCBs



Electrical characteristics

STAND DIMENSION & SPECIFICATION						
Part NO. #TOD-L-I(A)	Inductance@100KHZ		DCR	Suggested	Dimension (mm)	Mounting
	At Idc=0A (uH)±15%	At Idc (uH)	(mΩ) (Max)	Rated Current	coil size code AxBxC	
#T234-7-10	7	10%	5.5	10.0 Amps	31.5X33.0X17.8	Horizontal
#T234-16-6.7	16	10%	7.7	6.7 Amps	31.5X33.0X17.8	Vertical
#T358-20-12	20	10%	8.8	12.0 Amps	43.2X40.6X22.9	Vertical
#T270-26-11	26	10%	9.9	11.0 Amps	35.6X35.6X22.9	Horizontal
#T270-43-3.8	43	10%	12.1	3.8 Amps	31.5X33.0X17.8	Vertical
#T358-49-8	49	10%	13.2	8.0 Amps	40.6X40.6X22.9	Vertical
#T270-79-6	79	10%	16.5	6.0 Amps	35.6X35.6X22.9	Horizontal
#T270-84-2.4	84	10%	34.1	2.4 Amps	31.5X33.0X17.8	Vertical
#T400-138-6	138	10%	27.5	6.0 Amps	45.7X35.6X22.9	Vertical
#T343-200-3.8	200	10%	41.8	3.8 Amps	40.6X40.6X22.9	Vertical
#T400-257-4.9	257	10%	37.4	4.9 Amps	45.7X35.6X22.9	Vertical
#T358-380-2.4	380	10%	72.6	2.4 Amps	40.6X40.6X22.9	Vertical
#T400-402-3.7	402	10%	46.7	3.7 Amps	45.7X35.6X22.9	Vertical
#T358-900-5	900	10%	71	5.0 Amps	45.7X35.6X22.9	Vertical
#T358-1200-4	1,200.00	10%	104	4.0Amps	45.7X35.6X22.9	Vertical
#T358-1439-1.5	1,439.00	10%	175	1.5 Amps	45.7X35.6X22.9	Vertical
#T358-1600-3	1,600.00	10%	150	3.0 Amps	45.7X35.6X22.9	Vertical
#T358-2000-3.0	2,000.00	10%	168	3.0 Amps	45.7X35.6X22.9	Vertical

Dimensions : mm



Notes:

- 1) Inductance is minimum per winding tested at 20KHz 1V.
- 2) Rdc is maximum per winding.
- 3) SRF is minimum for each winding.
- 4) Parts are designed for 40°C MAX temperature rise at the rated current.Specification

Model NO : PFC (power factor correction)

Features & Application

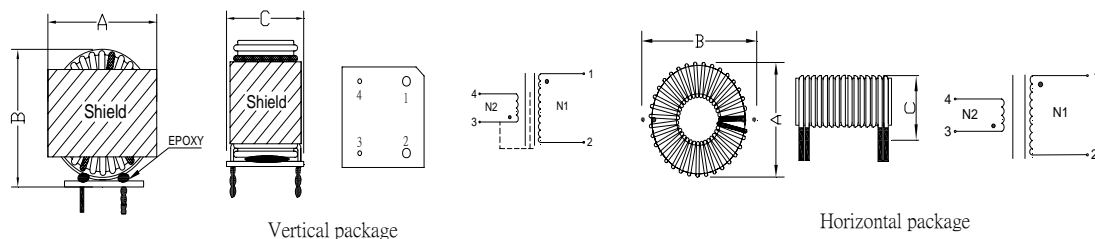
- * Selmag Toroid Style Power Factor Correction inductor are designed for low cost and highest performance.
- * LITZ Construction is designed to minimum the power losses exhibition in solid inductor due to skin effect.
- * PFC inductor have many kinds series.Shield and unshield indicated available for switching power supply.operating up to over 100KHZ of switching frequency.
- * Auxiliary winding optiond available at competitive costs.
- * Vertical or horizontal through hole mounting.
- * All material meet insulation class system B(130°C)F(150°C) or higher.



Electrical characteristics

STAND DIMENSION & SPECIFICATION					
Part NO. #TOD-L-I(A)	Inductance@100KHZ		DCR	Dimension (mm)	Mounting
	At Idc=0A (uH)±15%	Current Rating	(OHM) (Max)	coil size code AxBxC	
#T102-1.5-18	1.500 uH	18 amps	0.005 ohms	14-14-7	Vertical
#T229-25-9.8	25.000 uH	9.8 amps	0.011 ohms	28-27-13	Vertical
#T270-29-12.8	29.000 uH	12.8 amps	0.013 ohms	33-35-16	Horizontal
#T229-50-8.3	50.000 uH	8.3 amps	0.022 ohms	28-30-12	Horizontal
#T270-50-9.9	50.000 uH	9.9 amps	0.016 ohms	33-32-16	Vertical
#T166-100-3.3	100.000 uH	3.3 amps	0.065 ohms	21-21-10	Vertical
#T270-100-8	100.000 uH	8 amps	0.023 ohms	33-35-16	Horizontal
#T166-150-2.7	150.000 uH	2.7 amps	0.095 ohms	21-19-10	Vertical
#T229-150-4.5	150.000 uH	4.5 amps	0.052 ohms	28-26-11	Vertical
#T112-250-1.4	250.000 uH	1.4 amps	0.16 ohms	16--16--6	Vertical
#T270-1000-2.4	1,000.000 uH	2.4 amps	0.235 ohms	33-31-16	Vertical

Dimensions : mm



Notes:

- 1) Inductance tested at 100KHz 1V.
- 2) Inductance drop 20% at I sat.
- 3) Rdc is maximum per winding.
- 4) Operating temperature range-40°C to +85°C.
- 5) Custom designs are available to meet any of your