

## AUDIO / TELE-COM / PULSE TRANSFORMERS

Using the excellent high-u ferrite materials, cold rolled steel, permalloy lamination core, Nickole lamination core, We offer transformers excelling in transmission characteristics in wide bands and meeting customer requirements with fewer windings by earning the impedance.

### APPLICATIONS:

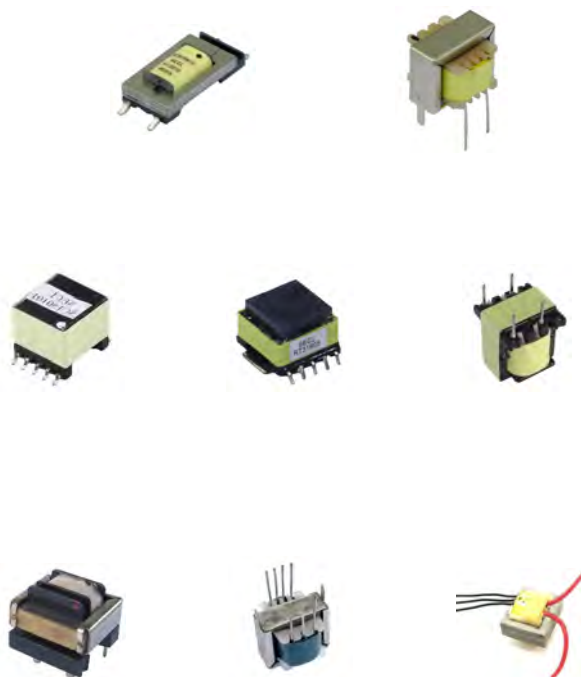
Cable TV, analogue&pulse modem, ISDN,ADSL,PABX system, Telecom equipment,Modem,Audio equipment.

### FEATURES:

- Small transmission losses and extremely small loss deviations
- Extremely small two-way impedance deviations
- Easy mounion on printed circuit boards.
- Meet UL1950,IEC950,EN60950

### GENERAL CHARACTERISTIC:

- Impedance range:1 $\Omega$ to 100K $\Omega$ +
  - Woking Frequency:20Hz-20KHz +
  - Insertion loss:down to 1dB
- Available core size:
- EE/EWI-8 to EI-133
  - EFD-12.5 to EFD-25
  - RM-4 to RM14
  - EP-7 to EP-20
  - POT-6 to POT-30
  - ED-8,ED-8LE,ED12.6,ED16,ED20,ED25  
for Nickole lamination core



**RoHS** **REACH**

#### Additional information:

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New approvals may be required.

# SH-LP-5001 SERIES SURFACE MOUNT LINE MATCHING AUDIO TRANSFORMERS



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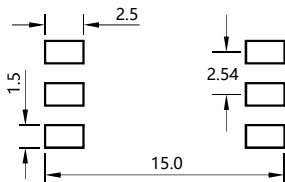
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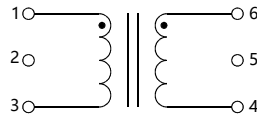
## FEATURES:

- Subminiature in FAT
- 7.36mm seated height
- Tested at 4600 Vrms, 1minute
- Distortion of only 0.015%
- Vacuum encapsulated
- UL60950 certified
- RoHS compliant
  
- Tape and reel is standard
- Bulk packaging available for faller quantities
- Custom design available
- Tolerance: 5% is standard, - Tighter tolerance available
  
- Modems(V32)
- Laptop Computer
- Telecommunications
- Instrumentation
- PCMCIA

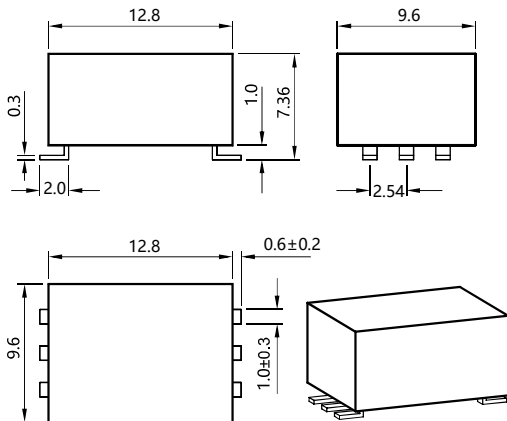
## STANDARD SPECIFICATIONS:



Suggested PCB Layout



Schematic



ALL DIMENSIONS IN MM

Nominal Impedance:	600°C
Turns Ratio:	1:1
Insertion Loss:	2.0dB max. at 2kHz
Frequency Response:	±0.25dB max. 200-4kHz
Return Loss:	24dB min. 200-4kHz *
Balance:	80dB min.
Distortion:	-76dB max. @600Hz, -10dBm
Dielectric Strength:	4600 Vrms for 1 min.
Insulation Resistance:	100MΩ@500V
DC Resistance * *	
Primary:	115 Ω±15%
Secondary:	115 Ω±15%
Shunt Inductance:	3.8H min.
Shunt:	7500 Ω min.
Leakage Inductance:	6mH typ. @1kHz
Power Level:	10dBm
Operating Temperature:	-20°C- +85°C
Storage Temperature:	-40°C- +85°C
Terminal Plating Material:	AgSn

\* For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech)

\* \* SH-LP-5001 is symmetrical, meaning there is no real primary nor secondary winding.

# SH-LP-5002 SERIES SURFACE MOUNT LINE MATCHING AUDIO TRANSFORMERS



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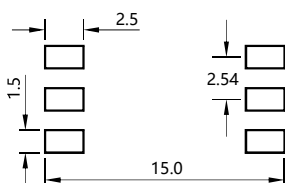
#### FEATURES:

- Subminiature in FAT
- 7.36mm seated height
- Tested at 4600 Vrms, 1minute
- Distortion of only 0.015%
- Vacuum encapsulated
- RoHS compliant

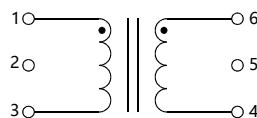
- Tape and reel is standard
- Bulk packaging available for
- faller quantities
- Custom design available
- Tolerance: 5% is standard,
- Tighter tolerance available

- Modems(V32)
- Laptop Computer
- Telecommunications
- Instrumentation
- PCMCIA

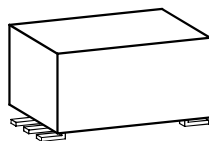
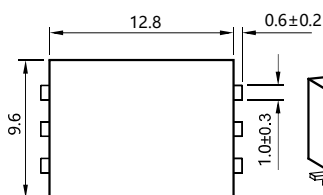
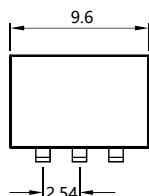
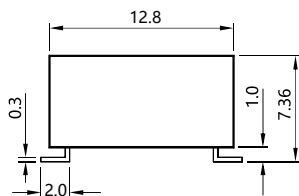
#### STANDARD SPECIFICATIONS:



Suggested PCB Layout



Schematic



ALL DIMENSIONS IN MM

Nominal Impedance:	600°C
Turns Ratio:	1:1
Insertion Loss:	2.0dB max. at 2kHz
Frequency Response:	±0.25dB max. 200-4kHz
Return Loss:	24dB min. 200-4kHz *
Balance:	80dB min.
Distortion:	-85dB max. @600Hz, -10dBm
Dielectric Strength:	4600 Vrms for 1 min.
Insulation Resistance:	100MΩ@500V
DC Resistance * *	
Primary:	136 Ω±12%
Secondary:	136 Ω±12%
Shunt Inductance:	3.8H min.
Shunt:	7500 Ω min.
Leakage Inductance:	6-7mH typ. @1kHz
Power Level:	10dBm
Operating Temperature:	-20°C-+85°C
Storage Temperature:	-40°C-+85°C
Terminal Plating Material	AgSn

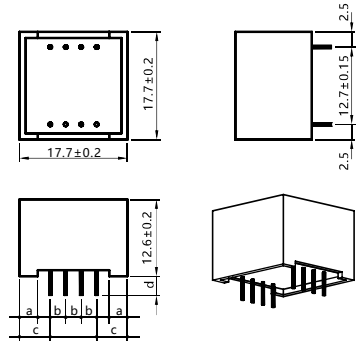
\* For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech)  
\* \* SH-LP-5002 is symmetrical, meaning there is no real primary nor secondary winding.

# SHAT 16XX SERIES SURFACE MOUNT LINE MATCHING AUDIO TRANSFORMERS



## FEATURES:

- Fully encapsulated
- Low profile
- High dielectric strength
- Ten models available
- Ex stock
- Competitively priced
- Lead free
- RoHS compliant



**Note:**  
The SHAT1600 Series Line Matching Transformers meet the return loss specifications of BS 6305. It is important, however, to use the circuit recommended by BS 6305 for return loss. The SHAT1600 Series meet EN41003.

a=3.0  
b=2.54  
c=5.04  
d=3.2±0.8  
ALL DIMENSIONS IN mm

- Tape and reel is standard
- Bulk packaging available for faller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available

- Line matching
- Modems
- Fax modems
- Laptop Computer
- Telecommunications
- Instrumentation
- PCMCIA



### Additional information:

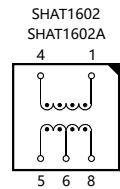
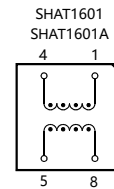
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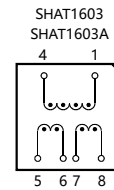
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## STANDARD SPECIFICATIONS:

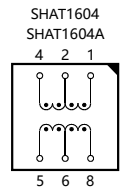
Parameters	Unit	Part Number										
		SHAT1601	SHAT1602	SHAT1603	SHAT1604	SHAT1605	SHAT1601A	SHAT1602A	SHAT1603A	SHAT1604A	SHAT1605A	
Ref. Temperature Data	°C	25	25	25	25	25	25	25	25	25	25	
Impedance (min./at 1.0kHz)	Primary	Ω	600	600	600	600 (150,150)	600 (150+150)	600	600	600	600 (150,150)	600 (150+150)
	Secondary	Ω	600	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)	600 (150+150)
Inductance (min./at 0.2 kHz)	Primary	H	2.8	2.8	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8	2.8	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)
	Secondary	H	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7+0.7)
DC-Resistance (Typical/±10%)	Primary	Ω	66	66	66	66 (33,33)	66 (33+33)	90	90	90	90 (45,45)	90 (45+45)
	Secondary	Ω	66	66 (33,33)	66 (33+33)	66 (33,33)	66 (33+33)	90 (45,45)	90 (45+45)	90 (45,45)	90 (45,45)	90 (45+45)
Turns Ratio(±2%)		1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	
Winding Configurations	/	/	one winding centre tapped	one winding split	both windings centre tapped	both windings split	/	one winding centre tapped	one winding split	both windings centre tapped	both windings split	
Insertion Loss (at 2.0kHz)	dB			≤ 1.5						≤ 2.0		
Return Loss (Transformer 0.2-4.0kHz In Networks)	dB			≥ 10.0						≥ 8.0		
Shunt Loss (Typical)	kΩ			≥ 21.0						≥ 20.0		
Frequency Response (Typ./0.2-3.5kHz)	dB			9.0						9.0		
Wide Band Response(0.2-10kHz)	dB			-0.3						-0.5		
Power Level	dBm			-2.5						-4.5		
Longitudinal Balance(0.3-4.0kHz)	dB			-45.0~+3.0						-43.0~+3.0		
Distortion(0 dB/at 1.0kHz)	%			-80.0						-70.0		
Leakage Induction(Typical)	mH			≤ 0.1						≤ 0.25		
Dielectric Strength(P/S)	kVDC			14.0						14.0		
Temperature Range	Operation	°C		6.5						6.5		
	Storage	°C		-10~ +60						-10~ +60		
				-20~ +70						-20~ +70		
Specifications Met				BS6240:Construction and flammability(UL94V0)						CCITT:Rec.T/CD1-1 (Sept.1982)		
				BS6310:Isolation								
				BS6305:Returnloss(1982/paragraph4.3.2.2/b)								



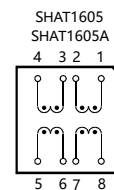
one-winding centre-tapped



one-winding split



both-windings centre-tapped



both-windings split

Due to the unique design and the most advanced manufacturing techniques the 2 coils are fully identical, meaning there is no real primary nor secondary winding. Depending on the application, the transformers can be used either way.

# SHRM & POT SERIES TELECOM TRANSFORMERS



## FEATURES:

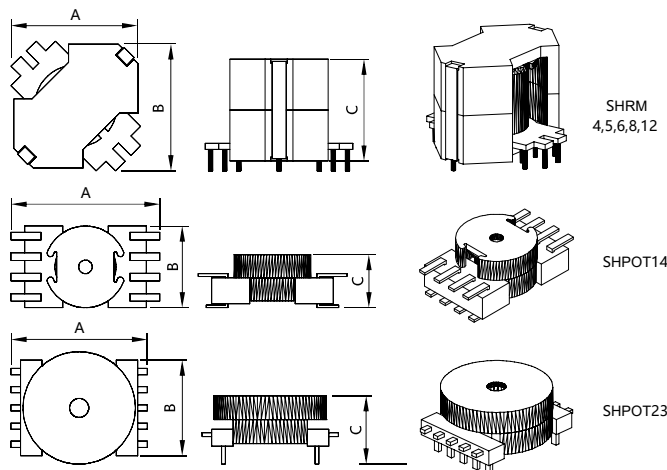
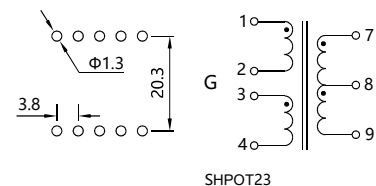
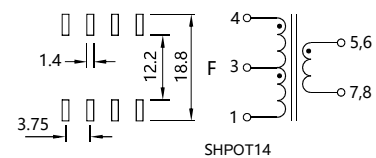
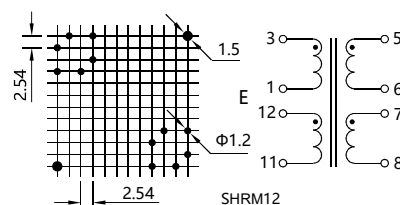
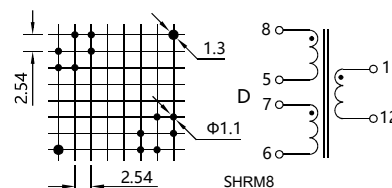
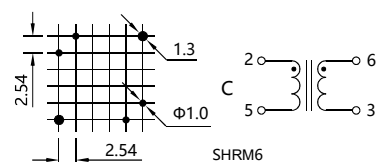
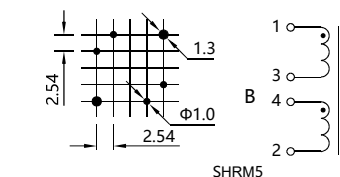
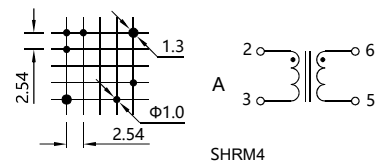
- High inductance.
- Low leakage inductance
- Low interwind capacitance
- Compact size and Surface-mounted
- Designed to meet UL, CSA, VDE, BABT safety standard
- Tape and reel is standard
- Bulk packaging available for all quantities
- Custom design available
- Tolerance: 5% is standard,
- Tighter tolerance available
- RM 4, 5, 6, 7, 8, 10, 12, 14 available
- POT 3.2, 4.5, 6, 7, 9, 11, 14, 18, & POT22, 26, 30, 36, 42, 48 available
- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC-DC, DC-DC converters



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## STANDARD SPECIFICATIONS:

Part No.	Inductance (10kHz/0.1V Typ)	Turn Ratio	DCR(Ωmax)	Hi-pot (Pri-Sec)	Schematic
SHRM4	45.2mH±35%(3-4)	1:1(2-3-5-6)	2.5:2.5(2-3-5-6)	500VDC	A
SHRM5	43.5mH±6%(1-3-3-4)	1:1(1-3-4-2)	4.6:4.6(1-3-4-2)	1000VDC	B
SHRM6	20mH±6%(2-3 tie 6+5)	1:1(2-5-6-3)	4.0:4.0(2-5-6-3)	850VDC	C
SHRM8	3.0mH±6%(8-6 tie 5+7)	5.24:1(8-6-1-12 tie 5-7)	1.7:1.7:0.42(8-5-7-6-1-12)	2500VAC	D
SHRM12	140μHmin(3-1=2-11)	1:1:2:2(3-1-12-11:5-6-7-8)	0.012:0.05(3-1=12-11:5-6=7-8)	500VDC	E
SHPOT14	450μH±25%(4-1)	3.75:1(4-1-6-8)	0.04:0.012:0.012(4-3:5-7:6-8)	1250VDC	F
SHPOT23	15.5mH±10%(1-4 tie 2+3)	1:0.6(1-4:7-9 tie 2+3)	13.7:8(1-4:7-9 tie 2+3)	1500VDC	G



ALL DIMENSIONS IN MM

Part No.	SH-RM4	SH-RM5	SH-RM6	SH-RM8	SH-RM12	SH-POT14	SH-POT23
A	10.5max	13.5max	16.6max	22.0max	31.7max	21.0max	24.4max
B	10.5max	13.5max	16.6max	22.0max	31.7max	15.0max	23.5max
C	11.0max	11.5max	12.7max	17.5max	25.4max	9.0max	11.6max

# SHAT SERIES ECONOMY AUDIO DRY (NO DC) COUPLING TRANSFORMERS



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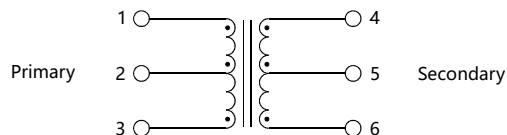
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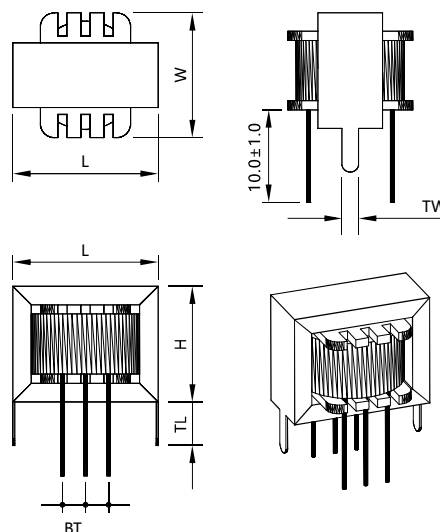
**FEATURES:**

- Metric size
- Low cost
- Dielectric strength-1000VAC (PRI-SEC-CORE)
- Resistance  $\pm 20\%$
- All impedances  $\pm 10\%$  (at 1kHz)
  
- Bulk packaging is standard
- Custom design available
  
- Telephony
- Audio coupling / isolating
- Alarm system

**STANDARD SPECIFICATIONS:**



Schematic



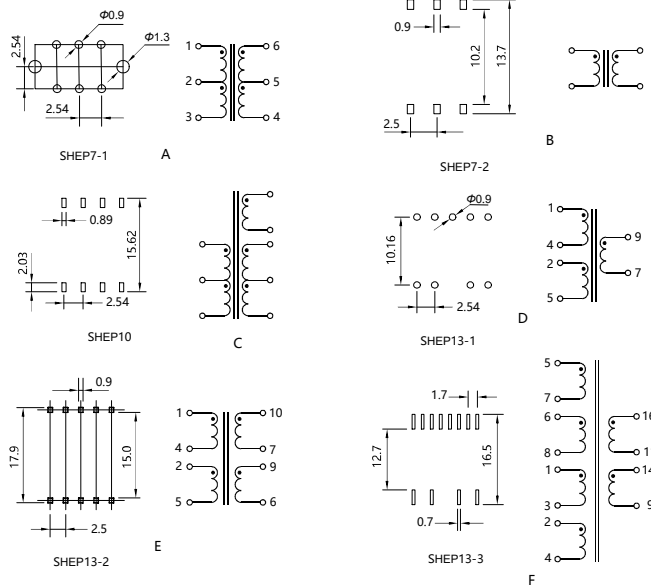
ALL DIMENSIONS IN MM

Part No.	Size	Description	Impedance(°C)		DC Resistance	
			Pri.	Sec.	Pri.	Sec.
SHAT-201	1	Output	500 C.T.	8 C.T.	35	0.8
SHAT-130	1	Coupling	600 C.T.	600 C.T.	45	40
SHAT-202	1	Output	1K C.T.	8 C.T.	60	0.8
SHAT-203	1	Coupling	10K C.T.	600 C.T.	450	100
SHAT-204	1	Driver	10K C.T.	2K C.T.	500	200
SHAT-301	2	Output	500 C.T.	8 C.T.	22	0.8
SHAT-302	2	Interstage	500 C.T.	500 C.T.	30	28
SHAT-303	2	Output	1.2K C.T.	8 C.T.	80	0.8
SHAT-304	2	Output	48 C.T.	8 C.T.	2.5	0.5
SHAT-305	2	Output	200 C.T.	8 C.T.	12	0.8
SHAT-400	3	Output	200 C.T.	8 C.T.	12	0.8
SHAT-401	3	Output	500 C.T.	8 C.T.	26	0.8
SHAT-129	3	Coupling	600 C.T.	600 C.T.	65	55
SHAT-402	3	Output	800 C.T.	8 C.T.	40	0.8
SHAT-403	3	Output	1.2K C.T.	8 C.T.	80	0.8
SHAT-404	3	Interstage	1.5K C.T.	500 C.T.	120	50
SHAT-405	3	Coupling	10K C.T.	600 C.T.	600	100
SHAT-406	3	Driver	10K C.T.	2K C.T.	600	155
SHAT-500	4	Output	48 C.T.	8 C.T.	2.5	0.5
SHAT-501	4	Output	120 C.T.	8 C.T.	7	0.7
SHAT-502	4	Output	200 C.T.	8 C.T.	12	0.5
SHAT-503	4	Output	500 C.T.	8 C.T.	18	0.7
SHAT-504	4	Interstage	500 C.T.	500 C.T.	35	28
SHAT-505	4	Driver	10K C.T.	2K C.T.	600	155
SHAT-506	4	Output	1.2K C.T.	8 C.T.	75	0.8
SHAT-507	4	Coupling	600 C.T.	600 C.T.	65	55

Part No.	size 1 EI-14	size 2 EI-16	size 3 EI-19	size 4 EI-24
L	15.2	17.7	20.3	25.3
H	11.0	14.0	16.2	19.0
W	12.0	16.0	14.5	16.9
TW	2.0	2.2	2.2	2.6
TL	3.8	4.0	4.2	4.8
BT	2.5	2.8	3.0	4.5

- Size 1: EI-14 series 0.75watts max. / TCW leads 0.4mm DIA.(0.0159)#26 AWG
- Size 2: EI-16 series 0.1watts max. / TCW leads 0.43mm DIA.(0.0179)#25 AWG
- Size 3: EI-19 series 0.2watts max. / TCW leads 0.4mm DIA.(0.0159)#25 AWG
- Size 4: EI-24 series 0.46watts max. / TCW leads 0.48mm DIA.(0.02)#24 AWG

# SHEP SERIES TELECOM TRANSFORMERS



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**STANDARD SPECIFICATIONS:**

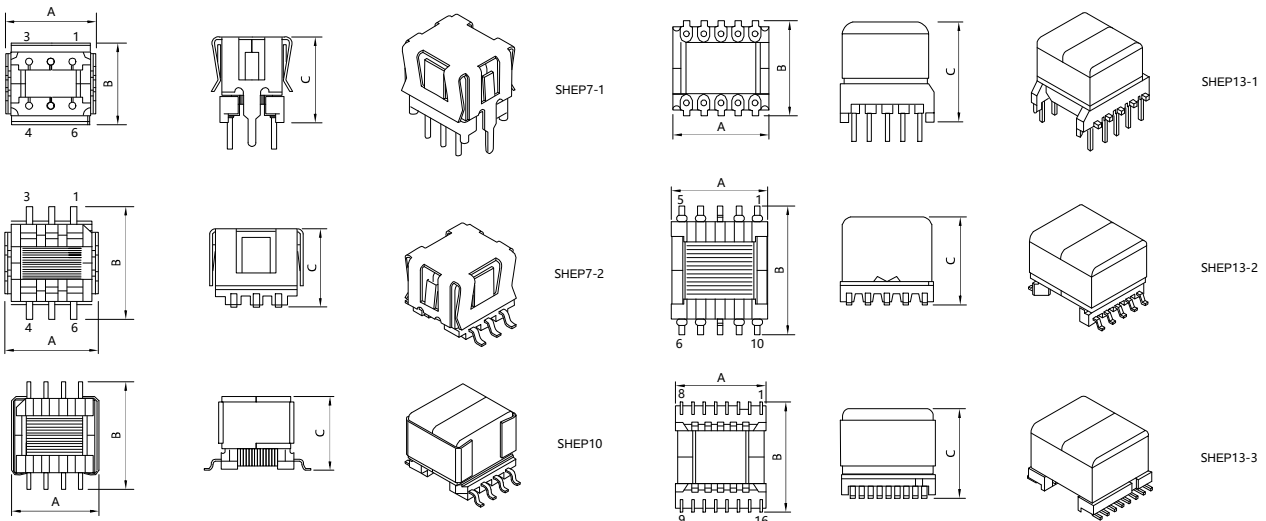
Part No.	Inductance (10kHz/0.1V Typ)	Cs (max)	Turn Ratio	DCR(Ωmax)	THD (max)	Hi-pot (Pri-Sec)	Schematic
SHEP7-1	2.0mH min (1-3)	27pF (pri-sec)	1.66:1(1-3:6-4)	0.8:0.7(1-3:6-4)		1250VAC	A
SHEP7-2	530 μH±6% (6-4)	27pF (pri-sec)	1:1(1-3:6-4)	2.1:2.1(1-3:6-4)	-54dB	1250VAC	B
SHEP10	1.75mH min (8-2)	100pF (pri-sec)	1:0.653:0.184 (8-2:6-7:3-5)	0.9:0.58:0.09 (8-2:6-7:3-5)		500VDC	C
SHEP13-1	2.0mH±10% (1-5 tie 2, 4)		4 : 1 (1-5:9-7 tie 2,4)	1.25:1.25:1.0 (1-4:2-5:9-7)	-72dB	2050VAC	D
SHEP13-2	410 μH±6% (1-5 tie 2, 4)		2 : 1 (1-5:10-6 tie 2+4,7+9)	0.48:0.23 (1-4:10-7)	-72dB	1875VAC	E
SHEP13-3	400 μH ±6% (16-9 tie 11,14)	21pF (pri-sec)	4.25 : 1 (16-9:5-8 tie 11+14,7+6)	0.49:0.28:0.96 (14-9:5-7:1-3)	-68dB	1875VAC	F

**FEATURES:**

- Low inFATERwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface-mounted
- Designed to meet UL, CSA, VDE, BABT safety standard
- Tape and reel is standard
- Bulk packaging available for all quantities
- Custom design available
- Tolerance: 5% is standard,
- Tighter tolerance available
- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC-DC, DC-DC converters

ALL DIMENSIONS IN MM

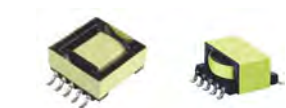
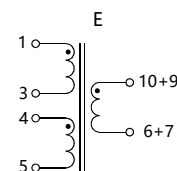
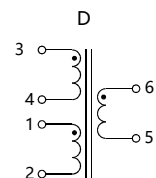
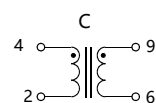
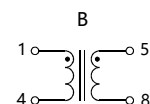
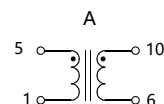
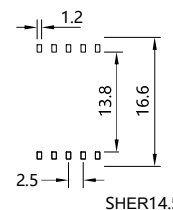
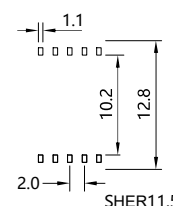
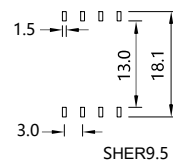
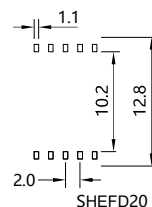
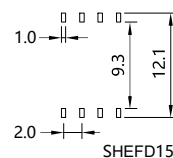
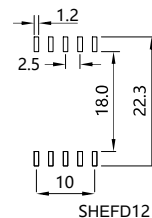
Part No.	SHEP7-1	SHEP7-2	SHEP10	SHEP13-1	SHEP13-2	SHEP13-3
A	10.5max	13.5max	24.4max	14.2max	13.6max	14.0max
B	10.5max	13.5max	23.5max	14.2max	17.9max	16.4max
C	11.0max	11.5max	11.6max	13.0max	12.4max	12.6max



# SHEFD & ER SERIES SURFACE MOUNT TELECOM TRANSFORMERS

## FEATURES:

- High inductance.
- Low leakage inductance
- Low interwind capacitance
- Compact size and Surface-mounted
- Designed to meet UL, CSA, VDE, BABT safety standard
- Tape and reel is standard
- Bulk packaging available for all quantities
- Custom design available
- Tolerance: 5% is standard,
- Tighter tolerance available
- SMD EFD 25/30 available
- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC-DC, DC-DC converters



### Additional information:

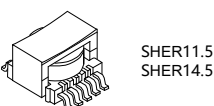
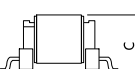
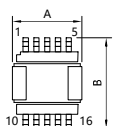
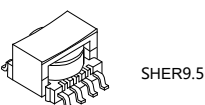
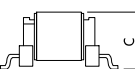
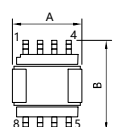
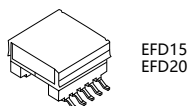
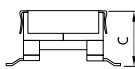
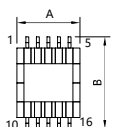
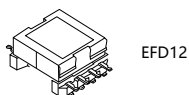
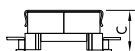
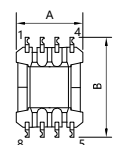
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We can offer that even custom-made transformers will be covered by approvals from UL, CSA, KEMA, etc., but we will be happy to assist you in implementing them. New approvals may be required.

## STANDARD SPECIFICATIONS:

Part No.	Inductance (10kHz/0.1V Typ)	Turn Ratio	DCR(Qmax)	Hi-pot (Pri-Sec)	Schematic
SHEFD12	27 $\mu$ H $\pm$ 10%(3-4)	0.74:1.0:71(3-4:1-2:6-5)	0.21:1.15:0.35(3-4:1-2:6-5)	1250VAC	D
SHEFD15	4.0mH $\pm$ 6%(1-5=10-6)	1:1(1-5:10-6)	6.25:6.25(1-5:10-6)	1000VDC	A
SHEFD20	20mH $\pm$ 6%(1-5 tie 10+6)	1:1(1-5:10-6)	5.55.5(1-5:10-6)	1000VDC	A
SHER9,5	200 $\mu$ H Typ.(1-4)	1:1(1-4:5-8)	0.12:0.132(1-4:5-8)	1000VDC	B
SHER11,5	58 $\mu$ H $\pm$ 10%(4-2)	1.2(4-2:9-6)	0.35:1.75(4-2:9-6)	500VAC	C
SHER14,5	14.4 $\mu$ H $\pm$ 10%(1-3)	1:1:1(1-3:4-5:10-6)	0.063:0.28:0.066(1-3:4-5:10+9-6+7)	500AC	E



ALL DIMENSIONS IN MM

Part No.	SHEFD12	SHEFD15	SHEFD20	SHER9,5	SHER11,5	SHER14,5
A	14.0max	16.5max	22.0max	10.5max	12.2max	15.2max
B	21.5max	22.3max	26.0max	12.1max	12.7max	16.5max
C	7.4max	8.6max	11.4max	6.2max	6.5max	7.2max



# SHTP6012 SHTM5001 SHTM5002 SERIES TELECOM TRANSFORMERS & POWER TRANSFORMERS



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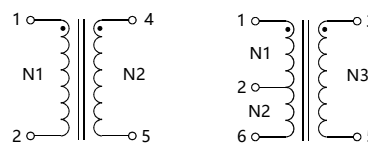
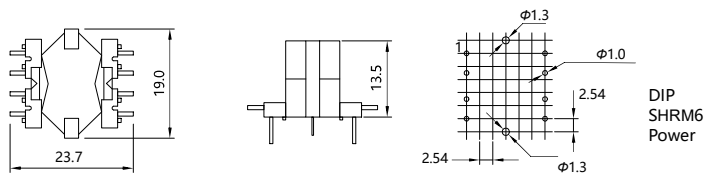
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**FEATURES:**

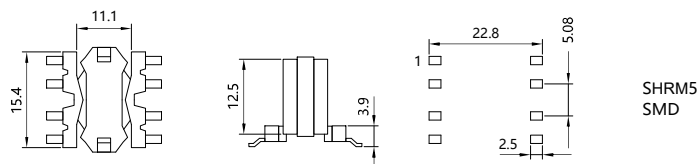
- Low inFATERwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface-mounted
- Designed to meet UL, CSA, VDE, BABT safety standard
- Tape and reel is standard
- Bulk packaging available for all quantities
- Custom design available
- Tolerance: 5% is standard,
- Tighter tolerance available
- RM 5, 6, SMD available
- RM 6, 8, 10, 12, 14 Power available
- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC-DC, DC-DC converters
- Soldering temperature: 260°C for 4 ± 1 seconds
- Operating temperature: 0°C to 70°C
- Storage Temperature: -25°C to 85°C
- Different package available per special reques

**STANDARD SPECIFICATIONS:**

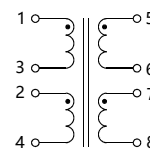
Part No.	N1 Inductance (1kHz/0.1V Typ)	Turn Ratio	N1 DCR(Ωmax)	Hi-pot (Pri-Sec)	Schematic
SHTP 6012	3.6mH min	N1:N2=1:2.5	4.5	1250V	1
SHTM 5001	2.5mH min	N1:N2:N3=1:1:3	6.5	1250V	2
SHTM 5002	1H min	N1:N2:N3:N4=1:1:1:1	30.0	1250V	3



Schematic 1                      Schematic 2

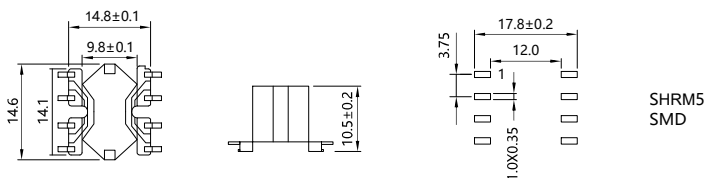


SHRM5  
SMD



Schematic 3

ALL DIMENSIONS IN MM



SHRM5  
SMD