SHAT 16XX SERIES SURFACE MOUNT LINE MATCHING AUDIO TRANSFORMERS

















Additional information:
We reserve the right to make technical changes or modify the contents of this document without prior notice.
SHARE Ltd. Does not accept any

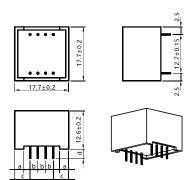
responsibility what so ever for potential errors or possible lack of information in

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.

FEATURES:

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



Note:

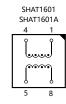
The SHAT1600 Series Line Matching Transformers meet the return loss specifications of BS 6305. It is important, however, to use the circuit recommended by BS 6305 for return loss The SHAT1600 Series meet EN41003.

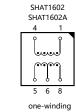
a = 3.0b = 2.54c = 5.04 $d = 3.2 \pm 0.8$

ALL DIMENSIONS IN mm

STANDARD SPECIFICA	TIONS.

Parameters		Unit	Part Number									
			SHAT1601	SHAT1602	SHAT1603	SHAT1604	SHAT1605	SHAT1601A	SHAT1602A	SHAT1603A	SHAT1604A	SHAT1605A
Ref. Temperature Data		℃	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	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)
Inductance (min./at 0.2 kHz)	Primary	Н	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	н	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	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	90 (45,45)	90 (45+45)	90 (45,45)	90 (45+45)
Turns Ratio(≤	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		
Transformer Return Loss (0.2-4.0kHz) In Networks		dB	≥10.0 ≥21.0					≥ 8.0 ≥20.0				
Shunt Loss (Typical)		kΩ	9.0					9.0				
Frequency Response (Typ./0.2-3.5kHz)		dB	-0.3					-0.5				
Wide Band Response(0.2-10kHz)		dB	-2.5					-4.5				
Power Level		dBm	-45.0~+3.0					-43.0~+3.0				
Longitudinal Balance(0.3-4.0kHz)		dB	-80.0					-70.0				
Distortion(0 dB/at 1.0kHz)		%	≤ 0.1					≤ 0.25				
Leakage Induction(Typical)		mH	14.0					14.0				
Dielectric Strength(P/S)		kVDC	6.5					6.5				
Temperature Range Operation Storage		°C	-10~+60					-10~+60				
		°C	-20~+70					-20~+70				
Speci□cations Met			BS6240:Constructionand flammability(UL94VO) BS6310:Isolation BS6305:Returnloss(1982/paragraph4.3.2.2/b)					CCITT:Rec.T/CD1-1 (Sept.1982)				

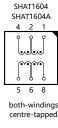


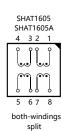


centre-tapped









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.



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