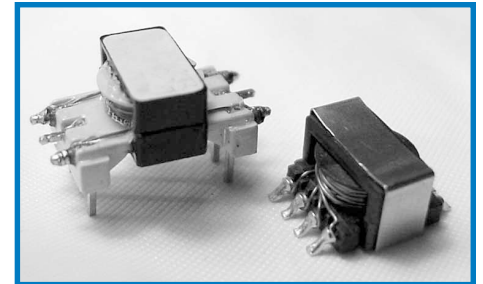


Digital/Audio Interface Transformers:

Schott Corporation works closely with Cirrus Logic to deliver digital/audio interface transformers which meet strict requirements for impedance, wave form, balance and dielectric strength. Our hand-wound, toroidal T-case transformer is designed for applications requiring a totally enclosed unit. Our ER9.5 transformers are machine wound and assembled to assure close parameter control while maintaining full interchangeability with the traditional T-case configuration, and are available with an electrostatic shield. These transformers are also available with alternate turns ration for impedance balancing and higher signal voltage applications.



Semiconductor/Transformer Application:

The Cirrus Logic CS8401, 8402, 8411 and 8412 CMOS devices are designed for transmission and receipt of digitized audio data. Used with Schott transformers they enable encoding, transmitting, receiving and decoding of audio data according to AES3-199X, EBU 3250, IEC 958, ANSI S4.40-1985, and EIAJ CP340 requirements. Though transformers are not required by the AES, they are highly recommended to reduce common-mode noise and possible cabling ground loops. Special attention has been given to the reduction of interwinding capacitance, with less than 2.0 pF in the electrostatically shielded model. All models feature a bandwidth of 1.0 to 10 MHz, sufficient for the biphasemark-encoded, audio-data rate of 25 - 55 kHz, but narrow enough to attenuate out-of-band noise.

Specifications

Schott P/N	Previous Schott P/N	Turns Ratio	Inductance uH	Leakage Inductance uH	Interwinding Capacitance pF	DCR Primary Ohms Nom	DCR Secondary Ohms Nom	Configuration	Schematic Code
22083	67125450	1:1	225	<0.3	<15	0.40	0.40	T Case	5
22133	67129600	1:1	225	<0.7	<2	0.10	0.10	ER 9.5-6 Pin THD Electrostatic Shield	4
22160	67128990	1:1	225	<0.55	<15	0.10	0.10	ER 9.5-6 Pin THD T Case Replacement	1
22523	67137640	1:1.22	225	<0.7	<2	0.10	0.10	ER 9.5-6 Pin THD Shield for 70/110 Ohms	4
24393	67146420	1:3	225	<0.4	15	0.12	0.36	ER 9.5-6 Pin THD for Higher Signal Voltage Applications	1
37211	29398	1:1	225	<0.4	<15	0.10	0.10	ER 9.5-8 Pin SMD	2
37246	27353	1:1	225	<0.7	<2	0.10	0.10	ER 9.5-8 Pin SMD	3

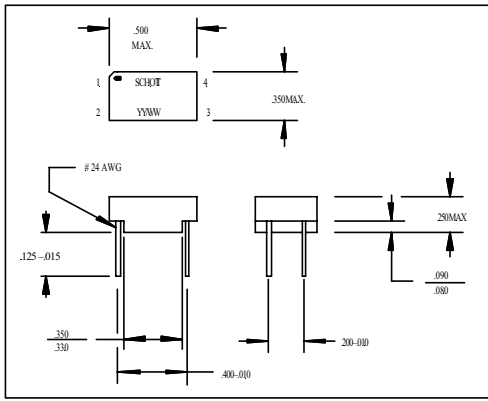
Parts availability subject to Schott manufacturing schedules and leadtimes. Not all parts available from stock. Please contact us for more details and availability. The Adobe Acrobat Reader is required to view these linked documents.

Electrical Specifications Test Criteria

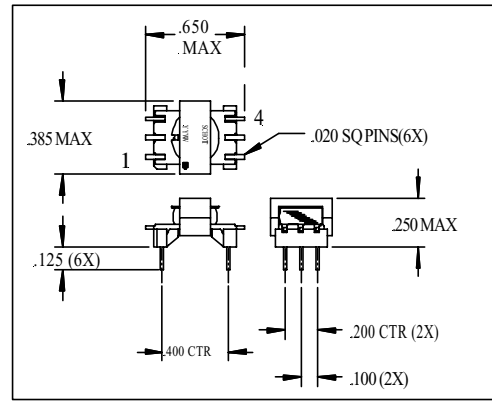
1. Electrical characteristics are reported for operating at 25°. The transformers are designed for operating at -40° to +130°.
2. Inductance is measured at 10 kHz, 0.1V.
3. Bandwidth is measured at +/-0.25 dB, 110 ohms.
4. Leakage inductance is measured at 100 kHz, with all other windings shorted.
5. Interwinding capacitance is measured at 100 kHz, between primary and all other windings tied together.

All data is believed to be accurate at time of printing. Schott Corporation reserves the right to make changes without notification. "Schott" is a trade name of Schott Corporation. All other trademarks and trade names are the property of their respective holder.

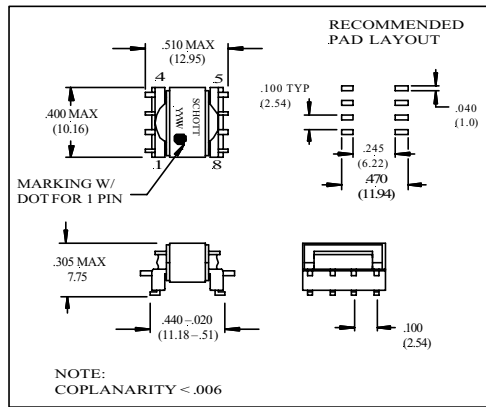
T CASE



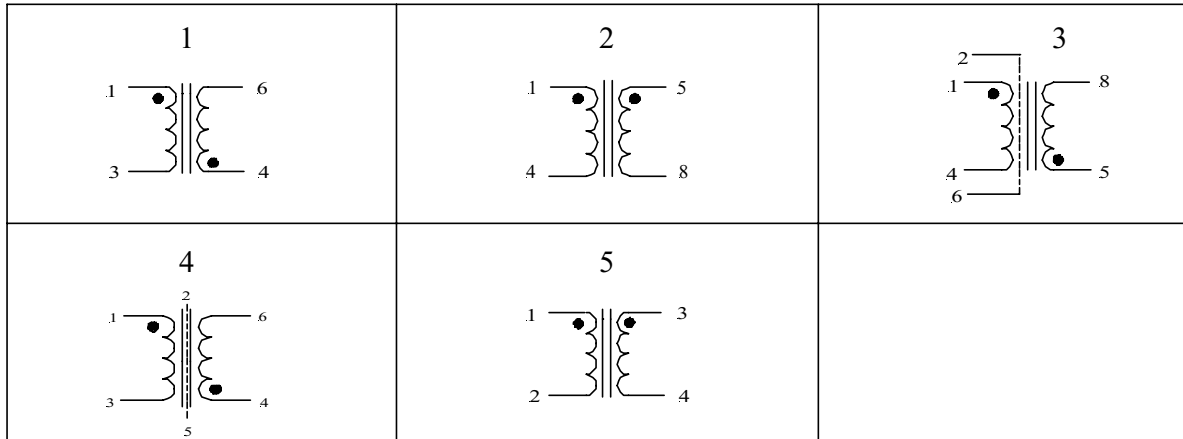
ER9.5 THD



ER9.5 SMD



SCHEMATICS



All statements and technical information contained herein are believed to be accurate, but the accuracy and completeness thereof is not guaranteed. If any product is found to be defective, Schott Corporation's (Seller) only obligation shall be to replace such quantity of the product proved to be defective. User shall determine the suitability of the product for the intended use, and user assumes all risk and liability whatsoever in connection herewith. Seller shall not be liable for any direct, consequential, or incidental loss or damage. Conditions not specifically stated herein shall be governed by established trade customs. Schott Corporation reserves the right to make changes without notification. "Schott" is a trade name of Schott Corporation. All other trademarks and trade names are the property of their respective holder.



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