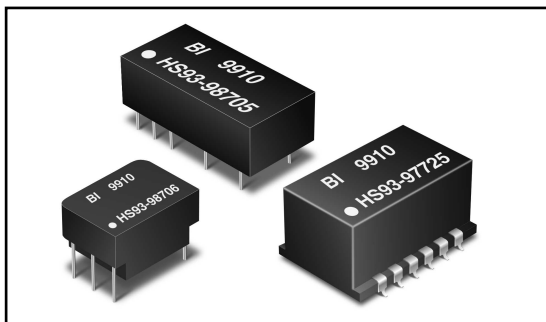


MODEL HS93 SERIES

T1/CEPT/ISDN

Transformers

NEW PRODUCT



FEATURES AND BENEFITS

- Available in through-hole and surface mount packages
- Designed for 1.544 Mbp/s (T1), 2.048 Mbps (CEPT) and ISDN primary rate interface (PRI) applications
- Dual package contains both transmit and receive transformers
- 2000 V rms dielectric withstanding voltage
- Models matched to leading tranceiver ICs

ELECTRICAL @ 25°C

Part Number	Turns Ratio Primary:Secondary ±3% ⁽¹⁾	OCL mH Min.	L _L µH Max.	C _{ww} pF Max.	Primary DCR Ω Max.	Secondary DCR Ω Max.	Primary Pins
HS93-98706	1:1:1	1.2	0.5	25	0.70	0.70 & 0.70	5-6
HS93-98705	1:2 ct & 1:1.36	1.2 & 1.2	0.5 & 0.8	35 & 35	0.8 & 0.8	1.2 & 1.0	14-12 & 5-7
HS93-97725	1 ct:2 ct & 1 ct:2 ct	1.2 & 1.2	0.6 & 0.6	35 & 35	0.7 & 0.7	1.2 & 1.2	12-10 & 4-6
HS93-97727 ⁽¹⁾	1:2 & 1:2	22 & 22	11 & 11	100 & 100	2.4 & 2.4	4.4 & 4.4	1-4 & 5-8

ENVIRONMENTAL

Operating Temperature Range

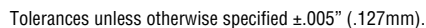
0°C to +70°C

MECHANICAL

Type	Through Hole	Surface Mount
Lead Plating	60/40 Tin Lead	85/15 Tin Lead
Lead Material	Copper Alloy	Copper Alloy 42
Lead Configuration	N/A	Gull Wing
Lead Coplanarity	N/A	0.004" (0.102mm)
Case Material, UL-94V-0 Rated	Molded Dap	Molded Epoxy

Specifications subject to change without notice.

Note: (1) Turns ratio based on the shorting of pins 2-3, 6-7, 10-11 & 14-15.

Model HS93-98706

Technical drawing of a 1/2 inch wide, 1/4 inch high, 1/8 inch thick rectangular plate. The drawing includes the following dimensions:

- Overall width: .660 (16.76 Max.)
- Overall height: .618 (15.69)
- Central hole diameter: .02 (0.5)
- Hole location from left edge: .100 (2.54)
- Distance from hole center to right edge: .400 (10.26 Max.)
- Distance from hole center to right edge (alternative dimension): .340 (8.64)
- Distance from hole center to right edge (alternative dimension): .059 (1.50)

Tolerances unless otherwise specified $\pm .005"$ (.127mm).

OUTLINE DIMENSIONS (Inch/mm)

Model HS93-98705

Technical drawing of Model HS93-98705 showing three views: top, side, and detail views.

Top View Dimensions:

- Overall width: $.810$ Max. (20.57)
- Pin diameter: $\varnothing .023$
- Pin spacing (center-to-center): $.100$ (2.54)

Side View Dimensions:

- Overall height: $.395$ Max. (10.0)

Detail View Dimensions:

- Pin length: $.260$ Max. (6.60)
- Pin thickness: $.300$ (7.62)
- Pin width: $.130$ (3.30)

Pin #1 Indicator

Tolerances unless otherwise specified $\pm .005"$ (.127mm).

Model HS93-98705

Technical drawing of Model HS93-98705 showing three views: top, side, and detail views.

Top View:

- Overall width: $.810$ Max. (20.57)
- Pin diameter: $\varnothing .023$
- Pin spacing (center-to-center): $.100$ (2.54)

Side View:

- Overall height: $.395$ Max. (10.0)

Detail View (Pin #1 Indicator):

- Pin #1 Indicator points to the first pin.
- Pin spacing (center-to-center): $.130$ (3.30)
- Pin diameter: $\varnothing .023$

Tolerances unless otherwise specified $\pm .005"$ (.127mm).

Model HS93-97727

Top View: Shows a rectangular component with a central row of 10 pins. Dimensions include a total width of .955 (24.25 Max.), a pin pitch of .100 (2.54 Typ.), a pin diameter of .02 (.50), and a maximum pin height of .577 (14.65 Max.). A "Pin #1 Indicator" is shown on the left.

Side View: Shows the profile of the component with a maximum height of .400 (10.16 Max.) and a maximum pin height of .720 (18.29). The bottom surface has a thickness of .025 (.635) to .055 (1.40).

Recommended PadLayout: Shows the recommended pad layout for the component. Dimensions include a total width of .700 (17.78), a pin pitch of .100 (2.54 Typ.), a pin diameter of .02 (.50), a maximum pin height of .577 (14.65 Max.), and a maximum pin height of .760 (19.30). The bottom surface has a thickness of .025 (.635) to .055 (1.40).

Tolerances unless otherwise specified $\pm .005"$ (.127mm).

Model HS93-97727

Top View: Shows a rectangular component with a central row of 10 pins. Dimensions include a total width of .955 (24.25 Max.), a pin pitch of .100 (2.54 Typ.), a pin diameter of .02 (.50), and a maximum pin height of .577 (14.65 Max.). A "Pin #1 Indicator" is shown on the left.

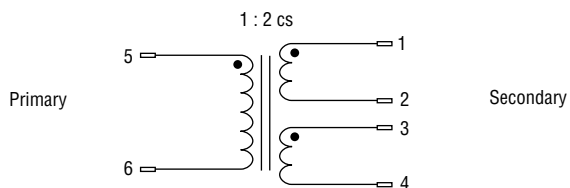
Side View: Shows the profile of the component with a maximum height of .400 (10.16 Max.) and a maximum pin height of .720 (18.29). The bottom surface has a thickness of .025 (.635) to .055 (1.40).

Recommended PadLayout: Shows the recommended pad layout for the component. Dimensions include a total width of .700 (17.78), a pin pitch of .100 (2.54 Typ.), a pin diameter of .02 (.50), a maximum pin height of .577 (14.65 Max.), and a maximum pin height of .760 (19.30). The bottom surface has a thickness of .025 (.635) to .055 (1.40).

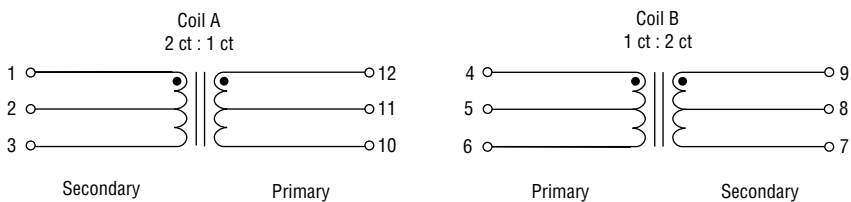
Tolerances unless otherwise specified $\pm .005"$ (.127mm).

SCHEMATICS

Model HS93-98706

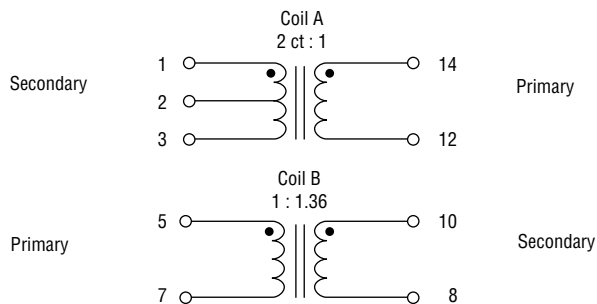


Model HS93-97725

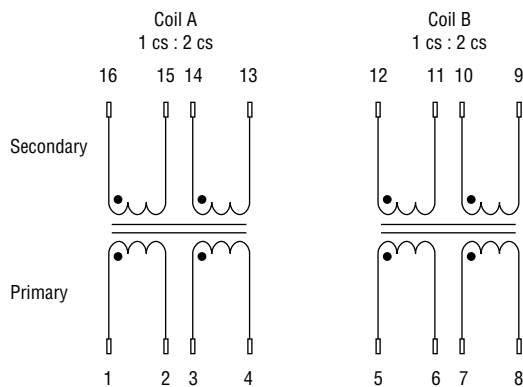


SCHEMATICS

Model HS93-98705



Model HS93-97727



PACKAGING

Standard: Tubes

Magazine	Capacity	HS93-98706	=	55 Units
		HS93-98705	=	24 Units
		HS93-97725	=	28 Units
		HS93-97727	=	20 Units

Option: Tape & Reel

Reel	Diameter		=	13"(330mm)
	Capacity	HS93-97725	=	420 Units
		HS93-97727	=	350 Units

ORDERING INFORMATION

