

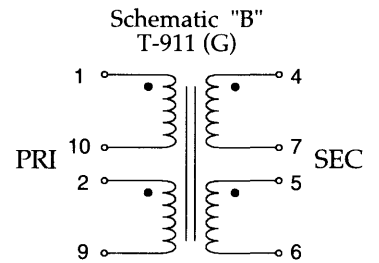
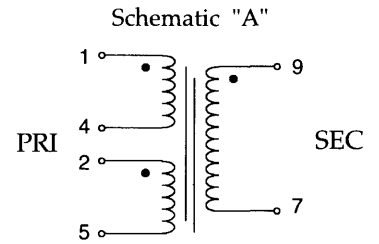
HDSL Line Interface Transformers

Thru-hole & Surface Mount Versions

Manufacturer Name	I.C. Part #	Bit Rate	Transformer Part #
Brooktree	BT8921	784	T-982
Brooktree	BT8921	1168	T-976
Brooktree	BT8960	160	T-984
Brooktree	BT8960	288	T-940
Brooktree	BT8960	416	T-983
Brooktree	BT8970	784	T-982
Brooktree	BT8970	1168	T-976

Electrical Specifications at 25°C

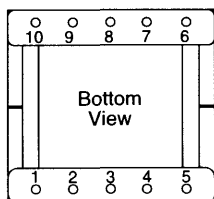
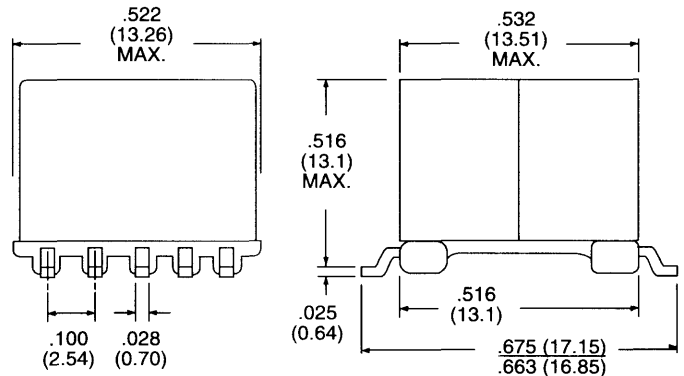
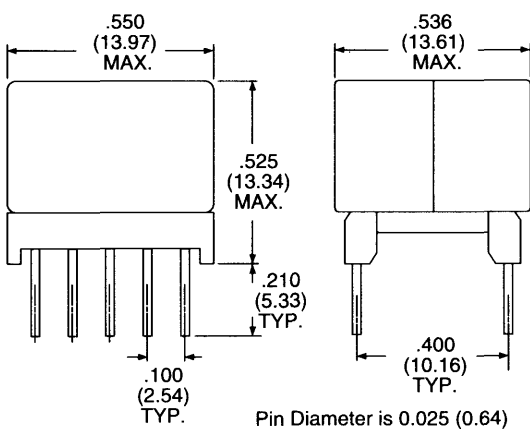
P/N (Thru-hole) P/N (SMD)	T-911 T-911G	T-940 T-940G	T-976 T-976G	T-982 T-982G	T-983 T-983G	T-984 T-984G	Units Units
Turns Ratio	1:1	2:1	2:1	2:1	2:1	2:1	
Inductance	3	5	2	3	3.5	8	mH
DC Resistance Pri	3.8	3.5	2.5	2.5	2.5	4.0	Ω
DC Resistance Sec	3.8	2.2	1.0	1.0	1.0	2.3	Ω
Frequency Response	0.1	0.07	0.1	0.7	0.1	0.1	dB
Insertion Loss	0.5	0.43	0.5	0.4	0.5	0.5	dB
D.C. Current	100	100	160	160	60	60	mA
Longitudinal Balance	50	53	50	53	53	53	dB
Return Loss	17	17	16.5	20	17	16	dB
Harmonic Distortion	-70	-70	-70	-70	-70	-70	dB
Isolation	1000	1500	1500	1500	1500	1500	V _{RMS}
Schematic Style	B	A	A	A	A	A	



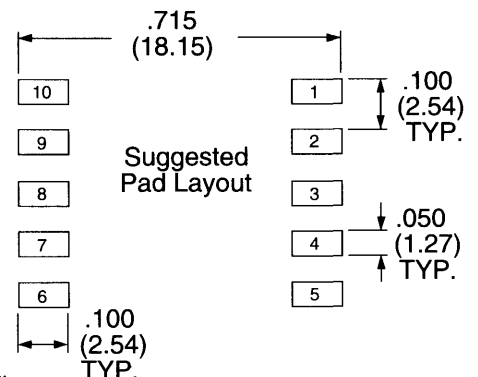
Request Individual Data Sheets for test conditions & additional information

Standard Thru-hole EP-13 Package

Surface Mount Versions of all Parts listed are available.
Add suffix "G" to specify surface mount package style.



Physical Dimensions
inches (mm)



For complete details including downloadable PDF catalogs and data sheets please visit www.rhombus-ind.com

Specifications subject to change without notice.

For other values & Custom Designs, contact factory.

www.rhombus-ind.com

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TEL: (714) 898-0960

FAX: (714) 896-0971

HDSL Line Interface Transformers

Available in Thru-hole and Surface Mount Versions

Operating Temperature
Range -40°C to +85°C

Primary is Line Side
Secondary is Chip Side

Surge Voltage Capability

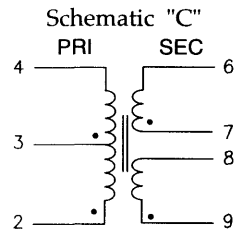
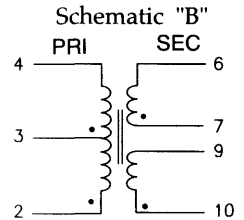
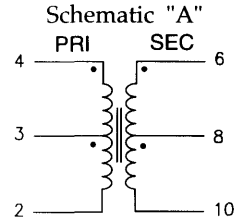
Metallic
Voltage: 800 V peak, 10/700 μS

Longitudinal
Voltage: 2400 V peak, 10/560 μS

Manufacturer Name	I.C. P/N	Bit Rate	Transformer P/N
Brooktree	BT8921	784	T-882
Brooktree	BT8921	1168	T-883
Brooktree	BT8952	784	T-718
Brooktree	BT8952	1168	T-717
Level One	SK7074	784	T-977
Level One	SK7074	1168	T-848

Electrical Specifications at 25°C

Parameter	T-977	T-848	T-718	T-717	T-882	T-883	Units
Turns Ratio ⁽¹⁾	1:1.8	1:1.8	2:1:1	2:1:1	1:1:1	1:1:1	
Inductance ⁽²⁾	2.75	2.06	3.00	2.00	3.00	2.00	mH
DC Resistance Pri	3.0	2.0	2.2	2.2	2.2	2.2	Ω
DC Resistance Sec	3.2	2.0	4.4	4.4	2.2	2.2	Ω
D.C. Current	75	75	160	160	70	70	mA
Longitudinal Balance	50	50	55	55	55	55	dB
Return Loss	20.0	16.5	20.0	16.5	20.0	16.5	dB
Harmonic Distortion	-75	-75	-75	-75	-75	-75	dB
Isolation	2000	2500	1500	1500	1500	1500	V _{RMS}
Schematic Style	A	B	C	C	C	C	



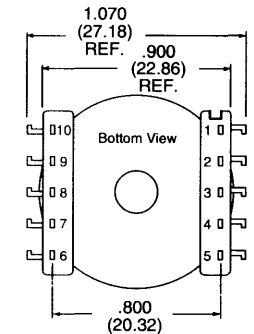
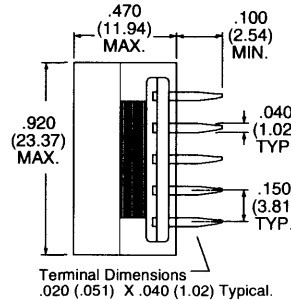
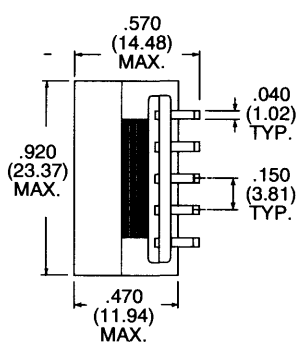
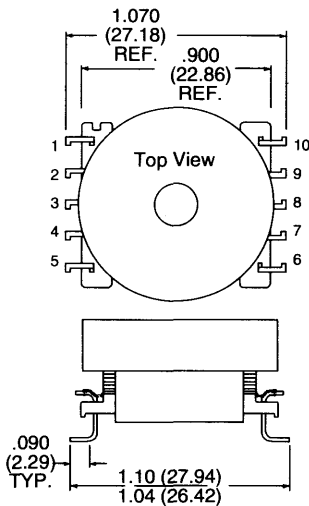
1. Chip Side (Primary) to Line side (Secondary)
2. Line side
3. For all parts, unused Pin # 5 can be removed for keying to printed circuit board. **Add suffix "-9"**

Part Number Examples:

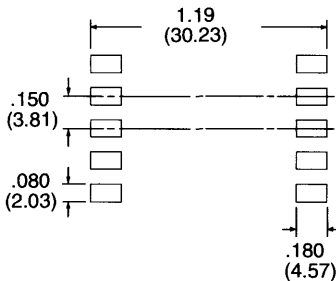
- T-977 10-Pin Thru-hole
- T-977-9 Thru-hole, Pin 5 Removed
- T-977G 10-Pin SMD
- T-977-9G SMD, Pin 5 Removed

Refer to Individual Data Sheets for test conditions & additional information

RS2311 Package Dimensions in inches (mm)



Termination Numbers for Reference Only.



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