

HDSL TRANSFORMERS

FEATURES

- Matched to Brooktree and Level One Chipsets
- Excellent THD performance
- Maximum height .500" (12,70 mm)
- Designs exceed standards for ANSI and ETSI



Electrical Specifications @ 25°C — Operating Temperature -40°C to 85°C

Part Number	Matched To Brooktree IC No.	Application	Turns Ratio Chip-Line ($\pm 2\%$)	Inductance Line Side (mH)	DC Current Capability (mA)	Leakage Inductance (μH MAX)	Isolation Voltage (Vrms MIN)	Mechanicals
ST-88614	SK70704/06/07/08	784 Kbps (2 pair)	1CT:1.8CT	2.75 \pm 6%	75	16	1500	THT
ST-88650	SK70704/06/07/08	1168 Kbps (2 pair)	1CT:1.8CTS	2.75 \pm 6%	75	16	1500	THT
ST-88621	BT8952	784 Kbps (2 pair)	2CT:1:1	3.0 \pm 6%	160	16	1500	THT
ST-88622	BT8952	1168 Kbps (2 pair)	2CT:1:1	2.0 \pm 6%	160	16	1500	THT
ST-89300	BT8921/BT8970	784 Kbps (2 pair)	1CT:1:1	3.0 \pm 6%	70	8	1500	THT
ST-89301	BT8921/BT8970	1168 Kbps (2 pair)	1CT:1:1	2.0 \pm 6%	70	8	1500	THT
ST-S1001	BT8960	416 Kbps	1CT:1:1	3.5 \pm 10%	70	12	1500	THT
ST-S1002	BT8960	288 Kbps	1CT:1:1	5.0 \pm 10%	70	12	1500	THT
ST-S1004	BT8960	160 Kbps	1CT:1:1	8.0 \pm 10%	70	16	1500	THT
ST-S1006	BT8921/BT8970	1168 Kbps (2 pair)	1CT:1:1	2.0 \pm 6%	70	8	1500	SMT
ST-S1007	BT8921/BT8970	784 Kbps (2 pair)	1CT:1:1	3.0 \pm 6%	70	8	1500	SMT

Additional Information

Part Number	DCR Line Side (MAX)	DCR Chip Side (MAX)	Return Loss			Longitudinal Balance (dB TYP @ 135 Ω)	THD (dB TYP @ 135 Ω)	Schematic
			4 KHz - 2 MHz	40 - 200 KHz	40 - 320 KHz			
ST-88614	3.0 Ω (6-8),(8-9)	2.2 Ω (2-4)	—	20 dB MIN	—	50 @ 5-196 KHz	-75 @ 5 KHz, 6V p-p	B
ST-88650	2.0 Ω (6-7),(9-10)	2.0 Ω (2-4)	—	—	16.5 dB MIN	50 @ 5-292 KHz	-75 @ 5 KHz, 6V p-p	C
ST-88621	2.2 Ω (6-7),(8-9)	4.4 Ω (2-4)	4 dB MIN	20 dB MIN	—	55 @ 196 KHz	-75 @ 200 KHz, 6V p-p	A
ST-88622	2.2 Ω (6-7),(8-9)	4.4 Ω (2-4)	4 dB MIN	—	16.5 dB MIN	55 @ 292 KHz	-75 @ 200 KHz, 6V p-p	A
ST-89300	2.2 Ω (6-7),(8-9)	2.2 Ω (2-4)	4 dB MIN	20 dB MIN	—	55 @ 196 KHz	-75 @ 200 KHz, 6V p-p	A
ST-89301	2.2 Ω (6-7),(8-9)	2.2 Ω (2-4)	4 dB MIN	—	16.5 dB MIN	55 @ 292 KHz	-75 @ 200 KHz, 6V p-p	A
ST-S1006	2.2 Ω (6-7),(8-9)	2.2 Ω (2-4)	4 dB MIN	—	16.5 dB MIN	55 @ 292 KHz	-75 @ 200 KHz, 6V p-p	A
ST-S1007	2.2 Ω (6-7),(8-9)	2.2 Ω (2-4)	4 dB MIN	20 dB MIN	—	55 @ 196 KHz	-75 @ 200 KHz, 6V p-p	A
			9 - 40 KHz	20 - 80 KHz	33 - 110 KHz			
ST-S1001	2.2 Ω (6-7),(8-9)	2.2 Ω (2-4)	—	—	16.5 dB MIN	55 @ 104 KHz	-70 @ 104 KHz, 6V p-p	A
ST-S1002	2.5 Ω (6-7),(8-9)	2.5 Ω (2-4)	—	16.5 dB MIN	—	55 @ 72 KHz	-70 @ 80 KHz, 6V p-p	A
ST-S1004	3.0 Ω (6-7),(8-9)	3.0 Ω (2-4)	16.5 dB MIN	—	—	55 @ 40 KHz	-70 @ 40 KHz, 6V p-p	A

Surge Voltage Capability: Metallic: 800 Vpeak 10/560 μsec . Long.: 2400 Vpeak 10/700 μsec .

Mechanicals

