





HDSL TRANSFORMERS

For Brooktree and Level One Chipsets



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

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

Part Number	Matched To Brooktree IC No.	Application	Turns Ratio Chip-Line (±2%)	Inductance Line Side (mH)	DC Current Capability (mA)	Leakage Inductance (µH MAX)	Isolation Voltage (Vrms MIN)	Mounting
PE-68621	BT8952	784 Kbps (2 pair)	2CT:1:1	3.0 ± 6%	160	16	1500	THT
PE-68622	BT8952	1168 Kbps (2 pair)	2CT:1:1	2.0 ± 6%	160	16	1500	THT
PE-69300	BT8921/BT8970	784 Kbps (2 pair)	1CT:1:1	3.0 ± 6%	70	8	1500	THT
PE-69301	BT8921/BT8970	1168 Kbps (2 pair)	1CT:1:1	2.0 ± 6%	70	8	1500	THT
B1001	BT8960	416 Kbps	1CT:1:1	3.5 ± 10%	70	12	1500	THT
B1002	BT8960	288 Kbps	1CT:1:1	5.0 ± 10%	70	12	1500	THT
B1004	BT8960	160 Kbps	1CT:1:1	8.0 ± 10%	70	16	1500	THT
B1006	BT8921/BT8970	1168 Kbps (2 pair)	1CT:1:1	2.0 ± 6%	70	8	1500	SMT
B1007	BT8921/BT8970	784 Kbps (2 pair)	1CT:1:1	3.0 ± 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)	Mounting
			4 KHz - 2 MHz	40 - 200 KHz	40 - 320 KHz			
PE-68621	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	THT
PE-68622	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	THT
PE-69300	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	THT
PE-69301	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	THT
B1006	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	SMT
B1007	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	SMT
			9 - 40 KHz	20 - 80 KHz	33 - 110 KHz			
B1001	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	THT
B1002	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	THT
B1004	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	THT

Surge Voltage Capability: Metallic: 800 Vpeak 10/560 µsec. Long.: 2400 Vpeak 10/700 µsec. UL approval for basic insulation has been received (File: E133523).

Mechanicals

Schematic

THT

SMT

SUGGESTED PAD LAYOUT

Weight.....14.0 grams
 Tray.....45/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm .010$
 0,25

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

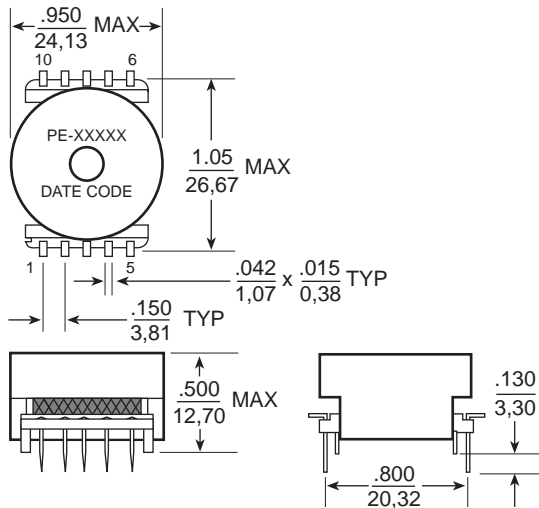
Part Number	Matched To Level One IC No.	Application (Kbps)	Turns Ratio Chip-Line ($\pm 3\%$)	Inductance Line Side (mH)	DC Current Capability (mA)	Leakage Inductance (MAX)	Isolation Voltage (Vrms MIN)
PE-68614*	SK70704	784 (2 pair)	1CT:1.8CT	2.75 \pm 6%	75	—	2000
PE-68650	SK70704	1168 (2 pair)	1CT:1.8CTS	2.06 \pm 6%	75	—	2500

Additional Information

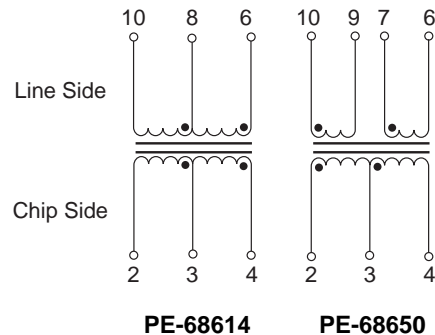
Part Number	DCR Line Side (Ω MAX)	DCR Chip Side (Ω MAX)	Return Loss			Longitudinal Balance (dB MIN @ 135 Ω)	THD (dB TYP @ 135 Ω)
			4 KHz - 2 MHz	40 - 200 KHz	40 - 320 KHz		
PE-68614	3.0 (6-8),(8-10)	3.2 (2-4)	—	20 dB MIN	—	50 @ 5-196 KHz	-75 (5 KHz, 6 V p-p)
PE-68650	2.0 (6-7),(9-10)	2.0 (2-4)	—	—	16.5 dB MIN	50 @ 5-292 KHz	-75 (5 KHz, 6 V p-p)

Surge Voltage Capability: Metallic: 800 Vpeak 10/560 μ sec. Long.: 2400 Vpeak 10/700 μ sec. UL approval for basic insulation has been received (File: E133523).

Mechanical



Schematic



Weight14.0 grams
Tray45/tray

Dimensions: Inches
mm

Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

*The PE-68614 does not have standoffs and has a height of .450" (11,43 mm) MAX, and a leadlength of 0.125" \pm 0.030".

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