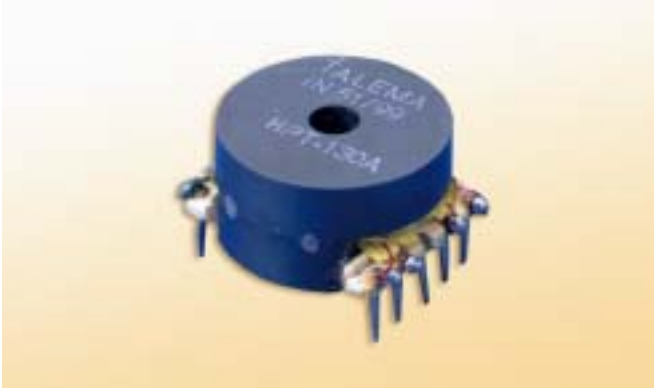
HPT Series - HDSL Transformers

Features

- complies with ANSI and ETSI requirements
- matched to all leading chip sets
- very low THD permits maximum loop lengths
- 1500V minimum isolation
- excellent quality at competitive price due to high volume production
- manufactured in ISO-9001 approved Talema facility



Transformer Selection Guide

Manufacturer	IC Type	Application	Transformer
Rockwell (Brooktree)	BT8921/BT8970	784Kbps	HPT-100A
	BT8921/BT8970	1168Kbps	HPT-110A
	BT8952	784Kbps	HPT-120A
	BT8952	1168Kbps	HPT-130A
	BT8960	416Kbps	HPT-140A
	BT8960	288Kbps	HPT-150A
	BT8960	160Kbps	HPT-160A
Level One	SK70704/SK70706	784Kbps	HPT-170B
	SK70704/SK70721	1168Kbps	HPT-180C

Typical Performance Data

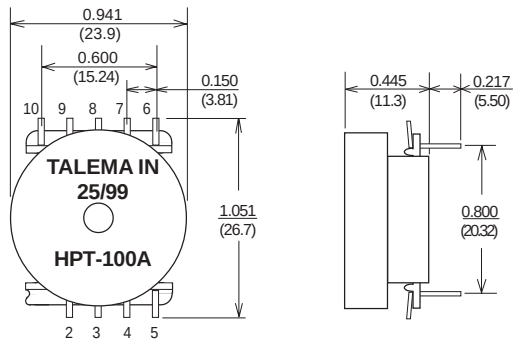
THD	-70dB max. 100kHz, 5Vpp
Longitudinal Balance	50dB min 40-300kHz
Return Loss	16.5dB min 40-300kHz
Matched to 135 Ohm Line Impedance	

Electrical Specifications @ 25°C

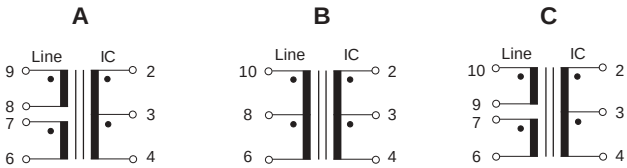
Operating Temperature: -40° to +85°C

Part Number	Turns Ratio ±2% IC : Line	OCL (mH)	L_L µH) Max.	DCR (Ohms) IC / Line	I_{DC} (mA)	Isolation Voltage (Vrms Min.)	Schematic
HPT-100A	1ct:1:1	3.0±6%	20	2.3 / 2.3	70	1500	A
HPT-110A	1ct:1:1	2.0±6%	20	2.3 / 2.3	70	1500	A
HPT-120A	2ct:1:1	3.0±6%	20	4.6 / 2.3	160	1500	A
HPT-130A	2ct:1:1	2.0±6%	20	4.6 / 2.3	160	1500	A
HPT-140A	1ct:1:1	3.5±10%	40	2.3 / 2.3	70	1500	A
HPT-150A	1ct:1:1	5.0±10%	40	2.6 / 2.6	70	1500	A
HPT-160A	1ct:1:1	8.0±10%	40	2.6 / 2.6	70	1500	A
HPT-170B	1ct:1.8ct	2.75±6%	20	3.2 / 3.0	75	2000	B
HPT-180C	1ct:0.9:0.9	2.03±6%	20	2.0 / 2.0	75	2500	C

Package and Outline



Schematic



Note: Pin 1 has been removed for polarization reference