

# SHDSL/HDSL2/HDSL4 LINE TRANSFORMER



## ● Matched to GlobeSpan G2237 HDSL2 Chipset

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

Part Number	Matched To GlobeSpan IC Number	Turns Ratio Chip-Line (± 2%)	Inductance Line Side (10-6)(w/7-9 shorted)	Leakage Inductance (10-6)(w/7-9,1-5 shorted)	Isolation Voltage (Vrms MIN)
ST-S1053	G2237	1CT:2.2CS	3.00 mH ± 5%	10 μH MAX	2500

### Additional Electrical Specifications

Part Number	DCR Line Side (10-7)=(6-9)	DCR Chip Side (1-5)	Longitudinal Balance (dB MIN @ 135 Ω)	THD (db TYP @ 135 Ω)
ST-S1053	1.25 Ω (MAX)	1.10 Ω (MAX)	60 @ 20-250 KHz	-70 (40 KHz, 1.84 V p-p)

## ● Matched to GlobespanVirata Orion Chipset

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

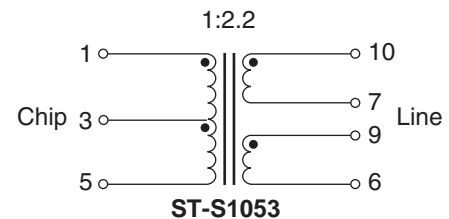
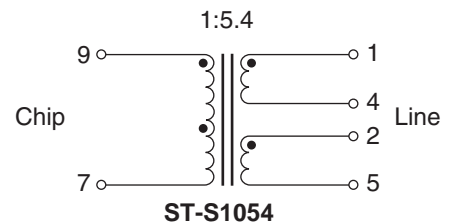
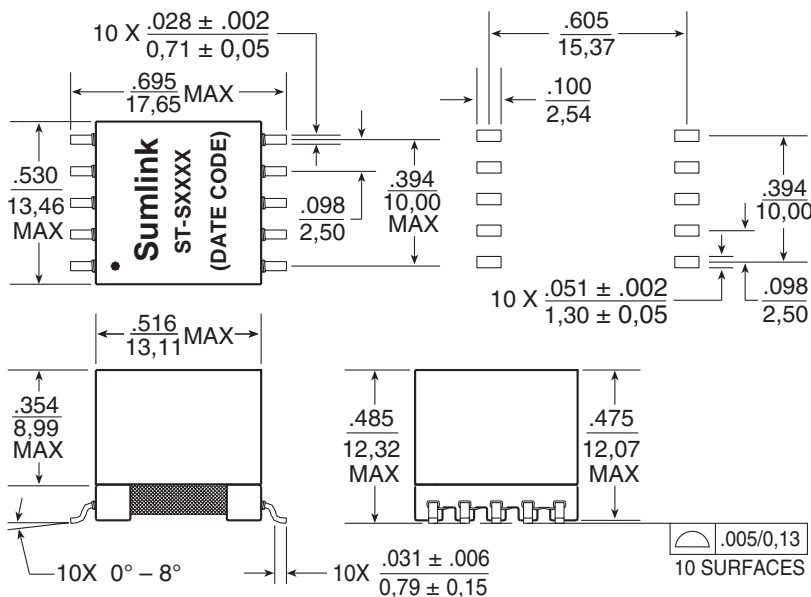
Part Number	Turns Ratio Chip-Line (± 2%)	Inductance Line Side (1-5) with (2-4) shorted	Leakage Inductance (1-5) with (2-4) & (9-7) shorted	Isolation Voltage	
				(1-5) to (9-7)	(1-5)
ST-S1054	1:5.4	3.00 mH ±6%	15 μH MAX	1500 Vrms MIN	600 Vrms MIN

### Additional Electrical Specifications

Part Number	DCR Line Side (1-5) with (2-4) shorted	DCR Chip Side (9-7)	Return Loss 135 Ω Line Side (40-500 kHz)	Longitudinal Balance (20-500 kHz)	THD (4 Vrms @ 5 kHz)
ST-S1054	4.2 Ω (MAX)	.35 Ω (MAX)	15 dB MIN	55 dB MIN	-79 dB MAX

## Mechanical

## Schematic



Dimensions: Inches  
mm  
Unless otherwise specified,  
all tolerances are ± .010  
0,25