

VDSL TRANSFORMERS

FEATURES

- For Use with Broadcom BCM 6010/6020
- Supports speeds up to 25.92 Mbps
- Provides two-wire to four-wire conversion
- Surface mount or through hole package



Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

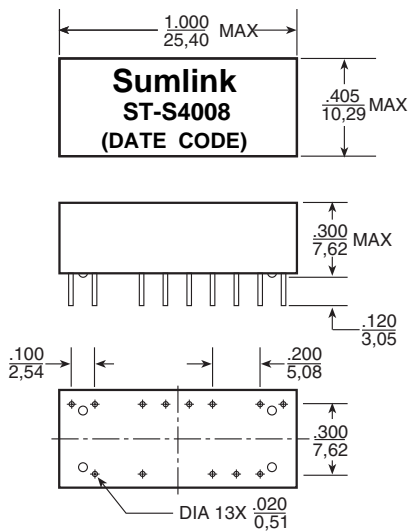
Part Number	Turns Ratio		DCR (MAX)	Return Loss (dB MIN)	Insertion Loss (dB MAX)	Transhybrid Loss (dB MIN)	Longitudinal Balance (dB MIN)	Isolation Voltage (Vrms)
	Trans.	Rec.						
ST-S4008	2:1	1:1	0.5 Ω	138 kHz to 1 MHz: 13.5	138 kHz to 20 MHz: 0.5	138 kHz to 1 MHz: 30	138 kHz to 300 kHz: 60	2000
ST-S4025				1 MHz to 20 MHz: 20			1 MHz to 20 MHz: 25	
						1 MHz to 20 MHz: 30		

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

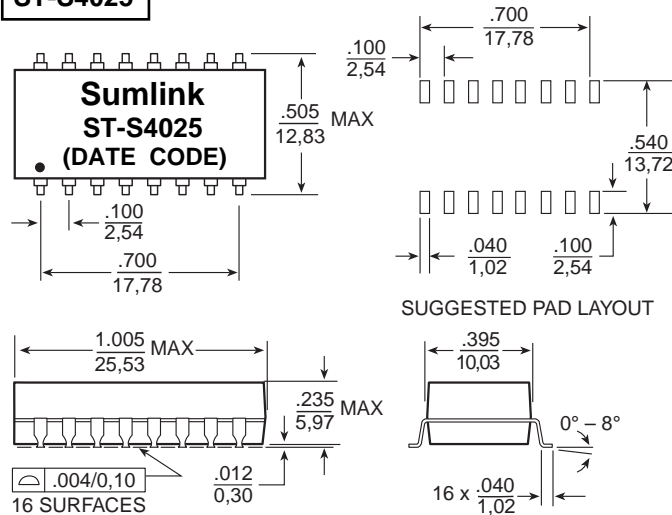
Surge over the Extended Temperature Range: Insertion Loss can increase to 1 dB. Return Loss can drop to 7 dB from 138 kHz to 300 kHz, and 12 dB from 300 kHz to 1 MHz.

Mechanicals

ST-S4008



ST-S4025

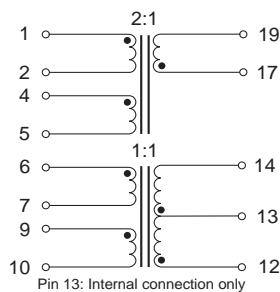


Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

Schematics

ST-S4008



ST-S4025

