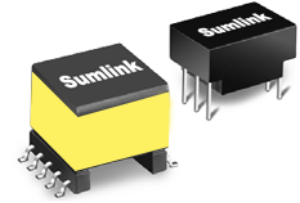


VDSL TRANSFORMERS

FEATURES

- Excellent return loss and balance
- Surface mount or through hole package
- Supplementary Insulation



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

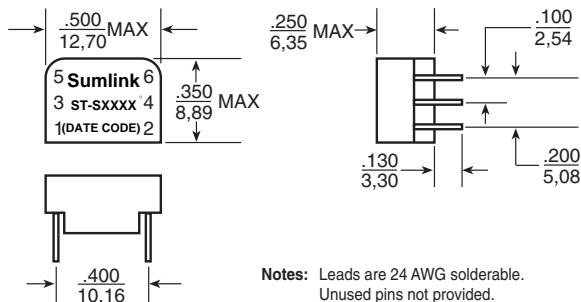
| Part Number | Turns Ratio | Insertion Loss (dB MAX) | Return Loss (dB MIN) | Longitudinal Balance (dB TYP) | Isolation Voltage (Vrms) |
|----------------|-------------|--------------------------|-----------------------|-------------------------------|--------------------------|
| ST-S4006 (THT) | 1:1 | 200 kHz to 400 kHz: 0.75 | 200 kHz to 18 MHz: 20 | 200 kHz: 60 | 3000 |
| | | 400 kHz to 30 MHz: 0.50 | 18 MHz to 30 MHz: 14 | 11 MHz: 50 | |
| ST-S4023 (THT) | 1:1CT | 200 kHz to 20 MHz: 0.50 | 200 kHz to 18 MHz: 17 | 100 MHz: 40 | 3000 |
| | | 20 MHz to 30 MHz: 0.75 | 18 MHz to 30 MHz: 13 | 200 kHz: 60 | |
| ST-S4004 (SMT) | 1CS:1CS | 200 kHz to 11 MHz: 1.00 | 200 kHz: 10 | 200 kHz: 50 | 1500 |
| | | | 400 kHz: 16 | 2 MHz: 40 | |
| | | | 4 MHz: 16 | 11 MHz: 40 | |
| | | | 11 MHz: 10 | | |

NOTES: Temperature range: -40°C to +80°C. Insertion loss increases by up to 1 dB at the extreme temperatures. Impedance for test: 100 Ω or 135 Ω. Small difference in return loss will occur.
Surge Voltage Capability: Metallic: 800 Vpeak 10/560 μsec. Longitudinal: 2400 Vpeak 10/700 μsec.

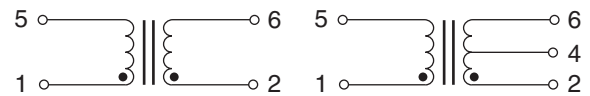
Mechanicals

Schematics

ST-S4006/ST-S4023



Notes: Leads are 24 AWG solderable.
Unused pins not provided.



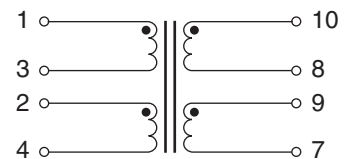
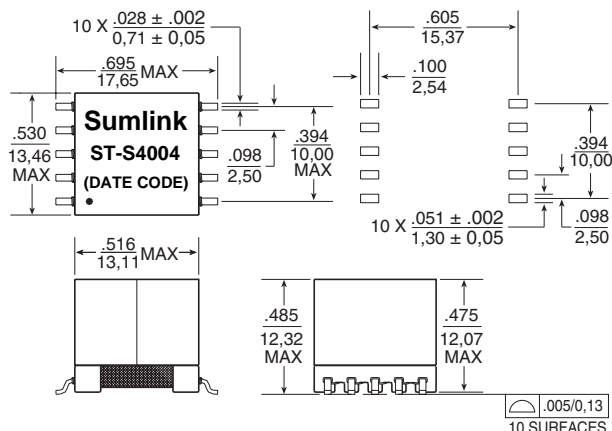
ST-S4006

ST-S4023

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

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

ST-S4004



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

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