

# ADSL FREQUENCY FILTER INDUCTORS

## FEATURES

- Excellent THD performance in a small footprint
- Used exclusively for frequency filtering
- Isolation Voltage: 500 Vrms
- Matched to various manufacturers' ADSL chipsets

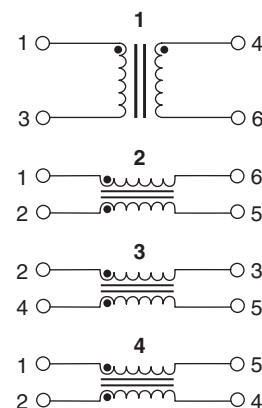
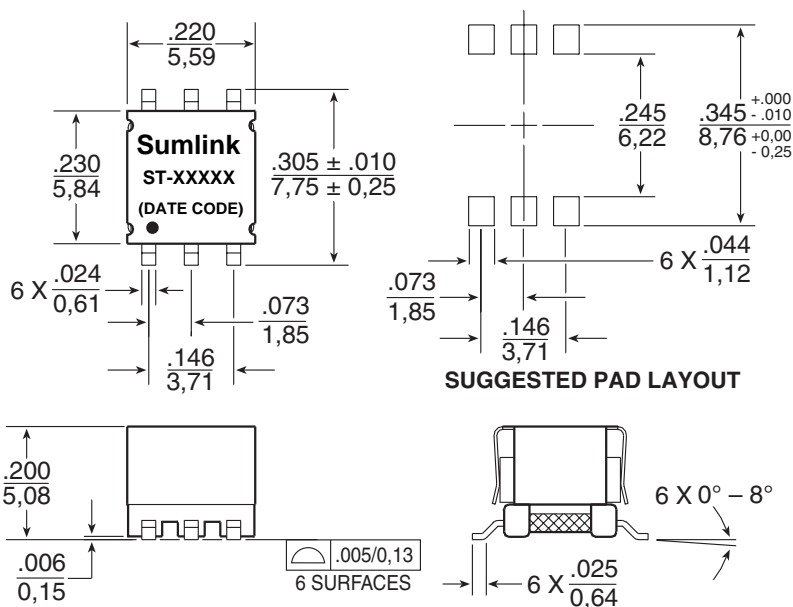


Electrical Specifications @ 25°C — Operating Temperature -40°C to 85°C

| Part Number | Application | Turns Ratio (±2%) | Inductance (μH MAX ±7%) | DC Resistance (Ω MAX) | Schematic | Matched to                   |                     |
|-------------|-------------|-------------------|-------------------------|-----------------------|-----------|------------------------------|---------------------|
|             |             |                   |                         |                       |           | IC Manufacturer              | Part Number         |
| ST-S8082    | CPE         | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 140     | (1-6) = (2-5) = 6.0   | 2         | For General use              |                     |
| ST-S2128    | CPE         | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 500     | (1-6) = (2-5) = 12.0  | 2         | For General use              |                     |
| ST-S2184    | CPE         | (1-5)/(2-4) 1:1   | (1-5) = (2-4) = 91      | (1-5) = (2-4) = 3.5   | 4         | For General use              |                     |
| ST-S2198    | CPE         | (2-3)/(4-5) 1:1   | (2-3) = (4-5) = 74      | (2-3) = (4-5) = 5.0   | 3         | For General use              |                     |
| ST-S8115    | CO          | (1-3)/(4:6) 1:1   | (1-3) = (4:6) = 500     | (1-3) = (4:6) = 9.0   | 1         | STMicroelectronics (Alcatel) | MTB-20850/MTB-21250 |
| ST-S8118    | CO          | (1-3)/(4:6) 1:1   | (1-3) = (4:6) = 282     | (1-3) = (4:6) = 9.0   | 1         | STMicroelectronics (Alcatel) | MTB-20850/MTB-21250 |
| ST-S8253    | CPE         | (1-3)/(4:6) 1:1   | (1-3) = (4:6) = 185     | (1-3) = (4:6) = 4.8   | 1         | STMicroelectronics (Alcatel) | MTB-20850/MTB-21250 |
| ST-S8254    | CPE         | (1-3)/(4:6) 1:1   | (1-3) = (4:6) = 110     | (1-3) = (4:6) = 2.5   | 1         | STMicroelectronics (Alcatel) | MTB-20850/MTB-21250 |
| ST-S8153    | CPE         | (1-3)/(4:6) 1:1   | (1-3) = (4:6) = 5.0     | (1-3) = (4:6) = 0.7   | 1         | STMicroelectronics (Alcatel) | MTB-20150/MTB-20170 |
| ST-S2208    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 170     | (1-6) = (2-5) = 4.0   | 2         | Centillium                   | CT-L50SC04          |
| ST-S2209    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 300     | (1-6) = (2-5) = 7.0   | 2         | Centillium                   | CT-L50SC04          |
| ST-S2210    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 455     | (1-6) = (2-5) = 9.0   | 2         | Centillium                   | CT-L50SC04          |
| ST-S2125    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 50      | (1-6) = (2-5) = 2.0   | 2         | GlobespanVirata              | G7000 (DMT/CAP)     |
| ST-S2126    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 170     | (1-6) = (2-5) = 6.5   | 2         | GlobespanVirata              | G7000 (DMT/CAP)     |
| ST-S2127    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 340     | (1-6) = (2-5) = 7.5   | 2         | GlobespanVirata              | G7000 (DMT/CAP)     |
| ST-S2155    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 205     | (1-6) = (2-5) = 6.0   | 2         | GlobespanVirata              | G7000 (DMT/CAP)     |
| ST-S8195    | CO          | (1-6)/(2-5) 1:1   | (1-6) = (2-5) = 102.5   | (1-6) = (2-5) = 6.0   | 2         | GlobespanVirata              | Titanium Express    |

## Mechanical

## Schematic



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