

SIGNAL CONDITIONING ACCESSORIES (SCA)

Cable Products, Mainline Passives, Conditioning Plugs for Taps

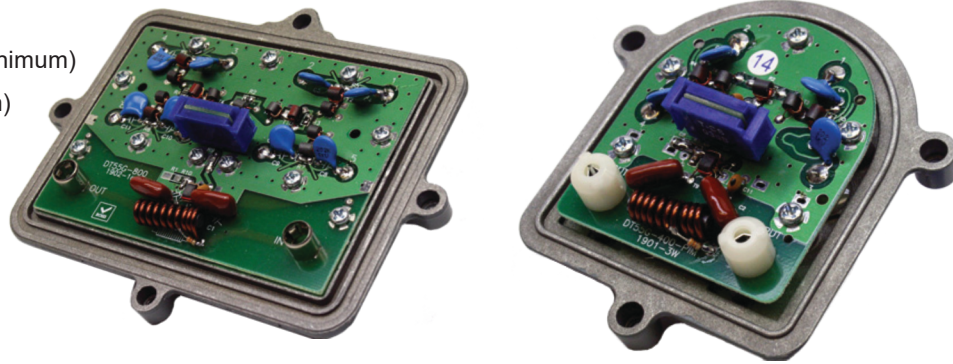
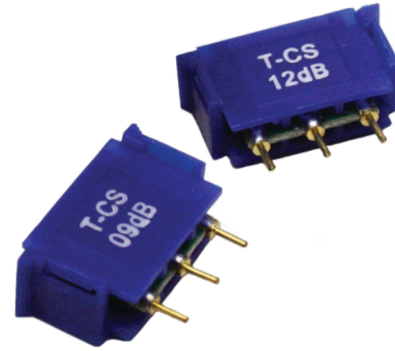
Features

- 5 – 1000 or 1218 MHz Bandwidth
- 12 Amp Current Capacity
- CB: Continuous Through Signal without Faceplate
- SCA: Plug In Signal Conditioning Accessory Installed in the Unit.
- Aluminum Alloy Housing used for Corrosion Resistance
- Double Polyurethane Coating for Greater Weather Protection
- Neoprene Gasket and RFI Shielding Gasket
- Printed Circuit Board

General Specifications

Flatness (5-1000 MHz or 1218 MHz) | ± 0.35 dB (minimum)
 RFI (5-1000 MHz or 1218 MHz) | -100 dB (minimum)
 Current | 12 Amps Continuous
 Nominal Impedance | 75 Ohms

Ordering Information



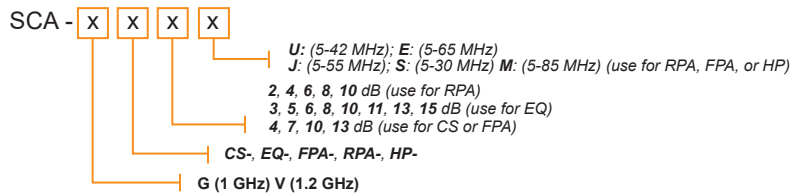
Conditioning Taps with SCA



| Model Number | Standard Carton | Inner Box | Carton Weight | dB Values Available |
|---------------------|-------------------|-----------|----------------|--|
| DTxxx-SR-CB-SCA-2xx | 50 pcs (40 pcs)** | 10 pcs | 17 kg / 37 lbs | -04T, -08, -11, -14, -17, -20, -23, -26, -29, -32, -35 |
| DTxxx-SR-CB-SCA-4xx | 50 pcs (40 pcs)** | 10 pcs | 18 kg / 40 lbs | -08T, -11, -14, -17, -20, -23, -26, -29, -32, -35 |
| DTxxx-SR-CB-SCA-8xx | 40 pcs | 10 pcs | 21 kg / 46 lbs | -11T, -14, -17, -20, -23, -26, -29, -32, -35 |

**66, 88 series are 40 pcs

Signal Conditioning Accessories



| Model Number | Std Qty | Inner Box | Description | Values (dB) |
|---------------|---------|-----------|--|----------------------------|
| SCAx-CS-xx | 30 pcs | 10 pcs | Cable Simulator - Maintains low loss in the return drop path, while attenuating the forward drop signals to the proper system levels. | 4, 7, 10, 13 |
| SCAx-EQ-xx | 30 pcs | 10 pcs | Cable Equalizer - Attenuates the return path signal from the customer premise, thus reducing the effects of system ingress. In addition, tightens the window of return path signal variation allowing for efficient operation of an optical nodes' return transmitter. | 3, 5, 6, 8, 10, 11, 13, 15 |
| SCAx-RPA-xx-x | 30 pcs | 10 pcs | Return Path Attenuator - Similar to SCA-EQ, except is split dependent and provides less impact on the forward drop signal. | 2, 4, 6, 8, 10 |
| SCAx-FPA-xx-x | 30 pcs | 10 pcs | Forward Path Attenuator - Attenuates the forward path to reduce the signal level into the customer premise | 4, 7, 10, 13 |
| SCAx-JP | 30 pcs | 10 pcs | Jumper - To ensure the continued signal transmission. | |
| SCAx-HP-xx | 30 pcs | 10 pcs | High Pass Plug In - Similar to SCA-RPA but attenuates the return path even more. Reduces system expense by not requiring a filter on every port. | Customizable |

CS: Cable Simulator / SCAX-CS-xx dB

Insertion Loss (dB)

| Frequency | CS-4 | CS-7 | CS-10 | CS-13 |
|---------------|------|------|-------|-------|
| 5-42 MHz | 1.0 | 1.0 | 1.0 | 1.0 |
| 42-400 MHz | 2.0 | 2.5 | 3.0 | 5.0 |
| 400-750 MHz | 3.0 | 5.0 | 7.5 | 9.0 |
| 750-1002 MHz | 3.8 | 6.5 | 10.0 | 12.5 |
| 1002-1218 MHz | 4.5 | 8.0 | 12.0 | 16.0 |

Return Loss (dB)

| Frequency | CS-4 | CS-7 | CS-10 | CS-13 |
|---------------|------|------|-------|-------|
| 5-1002 MHz | 16 | 16 | 16 | 16 |
| 1002-1218 MHz | 12 | 12 | 12 | 12 |

FPA: Forward Path Attenuator / SCAX-FPA-xx-x dB

Insertion Loss (dB)

| Frequency | FPA-4 | FPA-7 | FPA-10 | FPA-13 |
|---------------|-------|-------|--------|--------|
| 5-42 MHz | 1.0 | 1.0 | 1.0 | 1.0 |
| 42-400 MHz | 3.0 | 6.0 | 9.0 | 12.0 |
| 400-750 MHz | 3.0 | 6.0 | 9.0 | 12.0 |
| 750-1002 MHz | 3.8 | 6.5 | 10.0 | 13.0 |
| 1002-1218 MHz | 3.8 | 6.5 | 10.0 | 13.0 |

Return Loss (dB)

| Frequency | FPA-4 | FPA-7 | FPA-10 | FPA-13 |
|---------------|-------|-------|--------|--------|
| 5-1002 MHz | 16 | 16 | 16 | 16 |
| 1002-1218 MHz | 12 | 12 | 12 | 12 |

EQ: Cable Equalizer / SCAX-EQ-xx dB

Insertion Loss (dB)

| Frequency | EQ-3 | EQ-5 | EQ-6 | EQ-8 | EQ-10 | EQ-11 | EQ-13 | EQ-15 |
|---------------|------|------|------|------|-------|-------|-------|-------|
| 5-42 MHz | 3.0 | 4.5 | 6.0 | 7.5 | 9.5 | 11.0 | 13.0 | 14.5 |
| 42-400 MHz | 2.5 | 3.0 | 4.0 | 5.0 | 5.5 | 6.5 | 7.0 | 7.5 |
| 400-750 MHz | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 |
| 750-1002 MHz | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 |
| 1002-1218 MHz | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 | 1.2 |

Return Loss (dB)

| Frequency | EQ-3 | EQ-5 | EQ-6 | EQ-8 | EQ-10 | EQ-11 | EQ-13 | EQ-15 |
|---------------|------|------|------|------|-------|-------|-------|-------|
| 5-1002 MHz | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 1002-1218 MHz | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

RPA: Return Path Attenuator / SCAX-RPA-xx-x dB

Insertion Loss (dB)

| Frequency | RPA-2 | RPA-4 | RPA-6 | RPA-8 | RPA-10 |
|---------------|-------|-------|-------|-------|--------|
| 5-15 MHz | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 |
| 15-42 MHz | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 |
| 42-400 MHz | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 400-750 MHz | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 750-1002 MHz | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 1002-1218 MHz | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |

Return Loss (dB)

| Frequency | RPA-2 | RPA-4 | RPA-6 | RPA-8 | RPA-10 |
|---------------|-------|-------|-------|-------|--------|
| 5-1002 MHz | 16 | 16 | 16 | 16 | 16 |
| 1002-1218 MHz | 12 | 12 | 12 | 12 | 12 |

HPF: High Pass Filter / SCAX-HP-xx dB

Insertion Loss (dB)

| Frequency | HPF-54 | |
|---------------|--------|-----------------------------|
| 5-42 MHz | 45.0 | *54 MHz Filter Design Shown |
| 42-400 MHz | 3.0 | |
| 400-750 MHz | 2.5 | |
| 750-1002 MHz | 1.0 | |
| 1002-1218 MHz | 1.0 | |

Return Loss (dB)

| Frequency | HPF-54 |
|---------------|--------|
| 5-1002 MHz | 16 |
| 1002-1218 MHz | 12 |