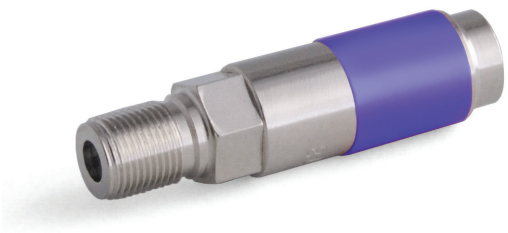
Step Attenuators

PPC's Step Attenuators provide a fixed level of flat attenuation within the upstream frequencies only. Low value taps produce the majority of ingress and trouble calls within a typical HFC network. This is due to the lack of sufficient reverse attenuation found in higher-value taps. Applied directly to the tap port, PPC Step Attenuators provide unity gain with all cable modems and other critical reverse transmission products like digital voice and high-speed internet.



Features

• Ingress Noise Attenuation: Attenuating the return path frequencies instructs the CMTS to raise the modem transmit level. This provides an improved signal to noise ratio; as the noise floor remains suppressed by the step attenuator.

• Micro-reflection Attenuation: Effectively reduces micro-reflections by two times the step attenuator value. Example: A 6 dB step attenuator will provide a 12 dB reduction in micro reflections.

• Dynamic Range Enhancement for FP Laser: Since the step attenuator reduces the ingress noise, the FP Laser performance margin is greatly improved, thereby reducing the risk for laser clipping.

Specifications	
Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.65 in (4.19 cm) Diameter = 0.5 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

Sample Part #:

SSA12-54

- Beginning passband freq. in MHz
- Level of attenuation in dB
- SSA Series Return Path Attenuator

Trap Specifications (Model Specific)

Model: **SSA12-54** Prep. By B.O. Date: 08/12/04

Response: Sample Minimum operating frequency: 1 Ghz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		5.0	11.8	12±1.0
2		40.0	12.1	12±1.0
3		54.0	1.3	1.5 max