

CPM-2 Module



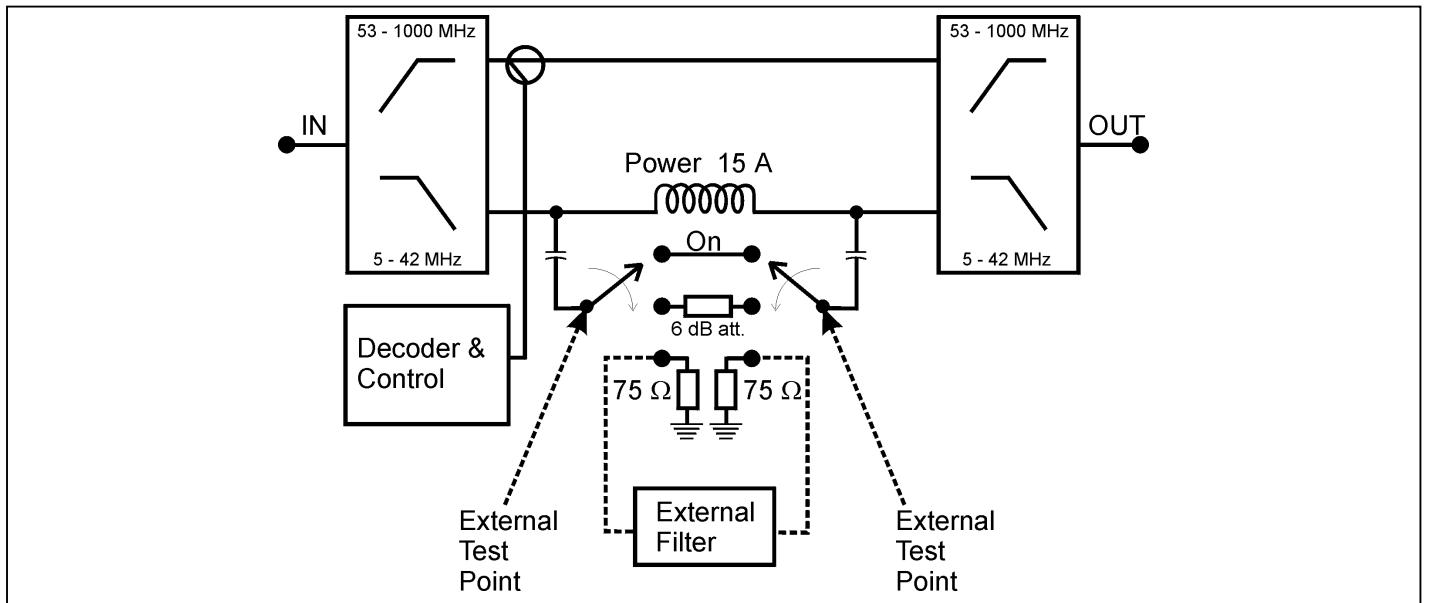
Electroline's CPM-2 is a second-generation return path switch that locates the source of ingress in a hybrid fiber/coax (HFC) network. To determine the source of ingress, the CPM-2 selectively switches a 6 dB pad into the return path. In locations where ingress is severe, the CPM-2 can switch off the entire 5-42 MHz band or a portion of that band if the optional filter is used.

The CPM-2 utilizes a smooth switching transition that will not disrupt high-speed data services. The effect of the return path switching is monitored and displayed on a spectrum analyzer at the headend. If the monitored ingress is reduced by 6 dB (or disappears when switched off), then the source of the ingress must be further downstream from that location. It is then a matter of switching CPM-2s located deeper in the cable plant in order to identify the point of origin of the ingress. Once the ingress source is located within a specific distribution area, technicians are dispatched to that site.

Enhanced Functionality

- ▼ smooth non-disruptive switching transition
- ▼ plug-in return band attenuator
- ▼ 2 test points on the return band
- ▼ optional filter for switching off a portion of the return band
- ▼ switching time 10 ms
- ▼ surge protected
- ▼ 5 to 42 and 5 to 65 MHz return band available

CLEARPath CPM-2 Application Diagram



The CLEARPath Advantage

Electroline's CLEARPath system provides a simple and intuitive solution to locating the source of ingress in the coaxial cable distribution plant of a HFC network. Combined with Electroline's Test Point Selector (TPS), which monitors individual nodes at the headend, and the Cable Ingress Management (CIM) software, ingress can be rapidly and easily managed: it is detected, located and remedied in a matter of minutes instead of hours or days, allowing for reliable 2-way operation throughout your network.

Specifications

Electrical:

Through Current Capacity:	15 A
Voltage Range:	24-75V (sine wave) 25-42 mA; 28-90V (quasi-square wave) 16-35 mA
Insertion Loss (forward path):	<1 dB typical
Insertion Loss (reverse path):	<1.2 dB typical
Return Loss (forward path direction):	16 dB typical
Return Loss (reverse path direction):	18 dB typical
Hum modulation:	-70 dB @ 15 A
RFI:	>100 dB

Physical:

Dimensions:	130 mm x 134 mm x 86 mm (5 1/8" x 5 9/32" x 3 3/8")
Weight:	0.81 kg (1.8 lbs)

Operating temperature range: -40°C to +60°C

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