



DIU-15D-1

2 Port Digital Interface Unit
High pass filter on TV port

- Simplify drop installs
- Reduce Inventory
- Improve drop specs

The DIU-15D-1 includes a high pass filter on the TV port and a clear data port for cable modem service. Each port protects the subscriber's and system's equipment connected to it by utilizing Cable Innovations patented surge suppression design and Sidactor technology.

A Sidactor is a solid-state crowbar device designed to protect equipment during hazardous transient conditions. In the standby mode, the Sidactor appears transparent to the circuits it protects, but upon application of a breakover voltage exceeding 135V, the Sidactor will crowbar and simulate a short circuit condition, which will divert the over voltage to ground, without effecting the RF signal. Once clear of the high transient condition, the Sidactor will reset and return to its normal high off-state impedance.

The DIU-15D-1's combination of efficiency, simplicity of installation, and superior surge protection makes it the clear choice when installing cable modem service.

| SPECIFICATIONS | Guaranteed Minimum Performance | | | | | | |
|------------------------------|--------------------------------|--------|---------|---------|---------|---------|----------|
| FREQUENCY (MHZ) | 5-40 | 54-100 | 100-330 | 330-551 | 551-750 | 751-870 | 871-1000 |
| Insertion Loss (IN-TV1) | 45 | 4.5 | 4.0 | 4.0 | 4.0 | 4.0 | 4.6 |
| Insertion Loss (IN-DATA) | 4.6 | 4.5 | 4.0 | 4.0 | 4.0 | 4.0 | 4.5 |
| Isolation (DATA)(TV1) | 65 | 25 | 25 | 25 | 25 | 25 | 25 |
| Return Loss (IN) (-DB MIN) | N/A | 20 | 24 | 23 | 23 | 20 | 20 |
| Return Loss (TV1) (-DB MIN) | N/A | 18 | 25 | 25 | 23 | 23 | 22 |
| Return Loss (DATA) (-DB MIN) | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| EMI/RFI Isolation (dB) | 130 | 130 | 130 | 130 | 130 | 130 | 130 |

| SPECIFICATIONS (Surge Suppression) | |
|--------------------------------------|------------------------|
| DC Breakover Voltage | 135V Min.165V Max. |
| Response Time | Less than 1 nanosecond |
| Current Suppression | 1000 Amps (2 x 10µs) |

PRODUCT FEATURES

- SCTE compliant "F" ports with 360 degree contact
- SCTE approved grounding screw and ground wire connection
- Dual adjustable mounting tabs for easy installation
- Voltage Blocking Capacitors on all ports to prevent ferrite core saturation
- Soldered brass back plate to prevent rusting and provide superior EMI
- Operating temperature (Ambient) -40 to +140 Degrees Fahrenheit 40 to +60 Degrees Celsius (Centigrade)
- Chromate zinc housing for superior corrosion resistance
- Patented surge suppression, other patents pending.
- SMD Components for more precise specs and superior digital performance
- Meets NEC 830-30 Two (2) Year Warranty