



# SUCCESS STORY

## Surface Mount Filters for Telecom IP DSLAM

*Spectrum Control power surface mount filters prevent EMI from degrading multiplexer system integrity.*

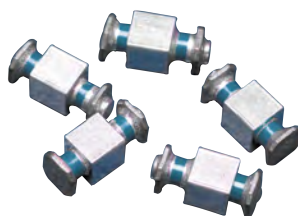
Internet protocol digital subscriber line access multiplexer (IP DSLAM) is a network device that receives signals from multiple customer DSL connections and puts them into a high-speed backbone line using multiplexing technologies. The integrity of these signals can be degraded from noise such as electromagnetic interference (EMI). Spectrum Control's Power Surface Mount (PSM) series of low pass filters prevent errors from these occurrences and the system from failing.

### Why Spectrum Control's EMI Filters are Chosen

Spectrum Control has a unique perspective on how to control EMI using its decades of expertise providing solutions for information technology interference problems. Spectrum Control's surface mount filters are designed to offer a range of high-performance EMI filtering options for telecommunications equipment with a minimal PCB footprint.

***PSM series is available through Spectrum Control's authorized distributor network.***

Spectrum Control offered a Pi circuit solution for this IP DSLAM equipment that effectively filtered with 4000 pF with 10 amps of current carrying capability. Optimal for this type of application.



***PSM series designs are available in both feedthrough and Pi circuit configuration.***



***Power surface mount filters are designed to protect against RF noise, distortion, or loss, common in IP DSLAM equipment.***

### Core Product Differentiators

Spectrum Control offers a family of surface mount filters that eliminate the need for bulky or through-hole filters providing customers optimum time and cost savings. This type of filter provides compact footprints for use in densely populated PCBs.

The PSM filter series is not only surface-mountable but also nonpolar with excellent performance characteristics.

### Features

- Capacitance up to .01 $\mu$ F
- Voltage rating: 200 VDC@ -55°C to +125°C
- DWV: 700 VDC
- Current rating: 20A (feedthrough), 10A (Pi) max.
- Tape and reel or bulk packaging available