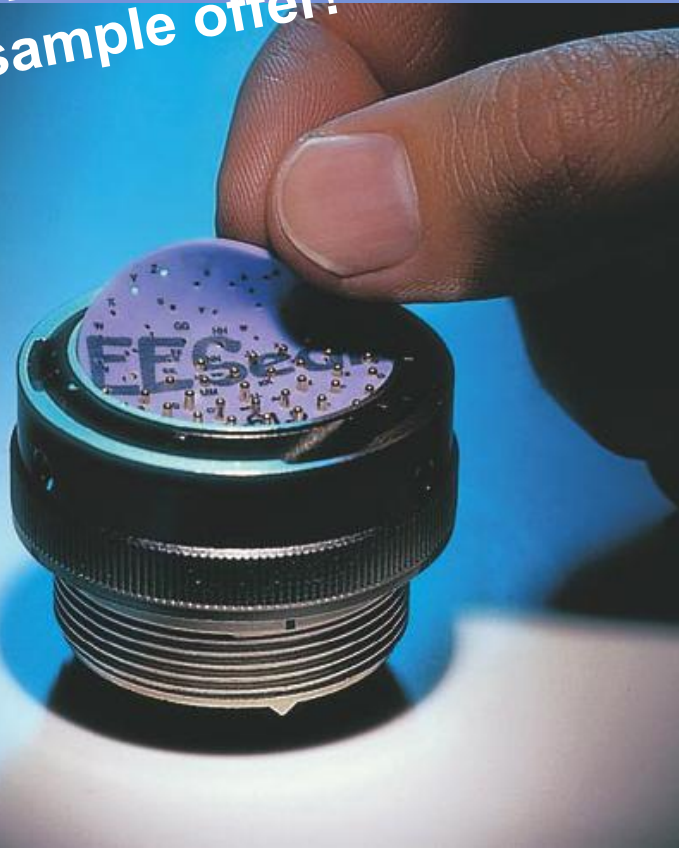


# EESeal® EMI Filter Insert Performance Characteristics

See inside for a  
**FREE** sample offer!

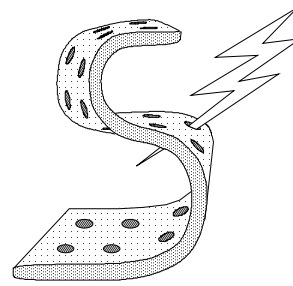


5639B Jefferson NE  
Albuquerque, NM 87109  
(505) 243-1423

[www.eeseal.com](http://www.eeseal.com)

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The EESeal® device and method are covered by US Pat 5,686,697 and various international patents pending

# EESeal<sup>®</sup> Features & Options



- **Compatible with virtually all types of connectors**, from common DSubs to mil-spec types to customs
- **Fast Delivery** we welcome custom builds, expedited shipments in 1-3 days, even for complex customs!
- **Capacitors from 0.5pF to 1.0μF** (MOVs & Diodes also available), can easily accommodate custom pin assignments, including mixed caps, shorts and opens.  
Examples: 300pF 1000wvdc, 1500pF 500wvdc, 4700pF 500wvdc, 47,000pF 300wvdc, 0.33μF 50wvdc
- **Custom labels** (your P/N & LRU ID, from 1.5pt font... to 48pt)
- **Custom colors** (blue, green, red, pink, orange, white, black, etc.)
- **Quick & Easy installation in the field or shop**, simply use the mating connector as a tool to push the part into place: no other tools required, and misalignment during installation will not degrade the part
- **Easy extraction and re-use**, extraction kits are available to remove EESeal. Can also be extracted using a dull probe and tweezers (not recommended if you want to reuse them).

**Contact Quell &  
Get A Free Sample!**



**How to contact Quell:**

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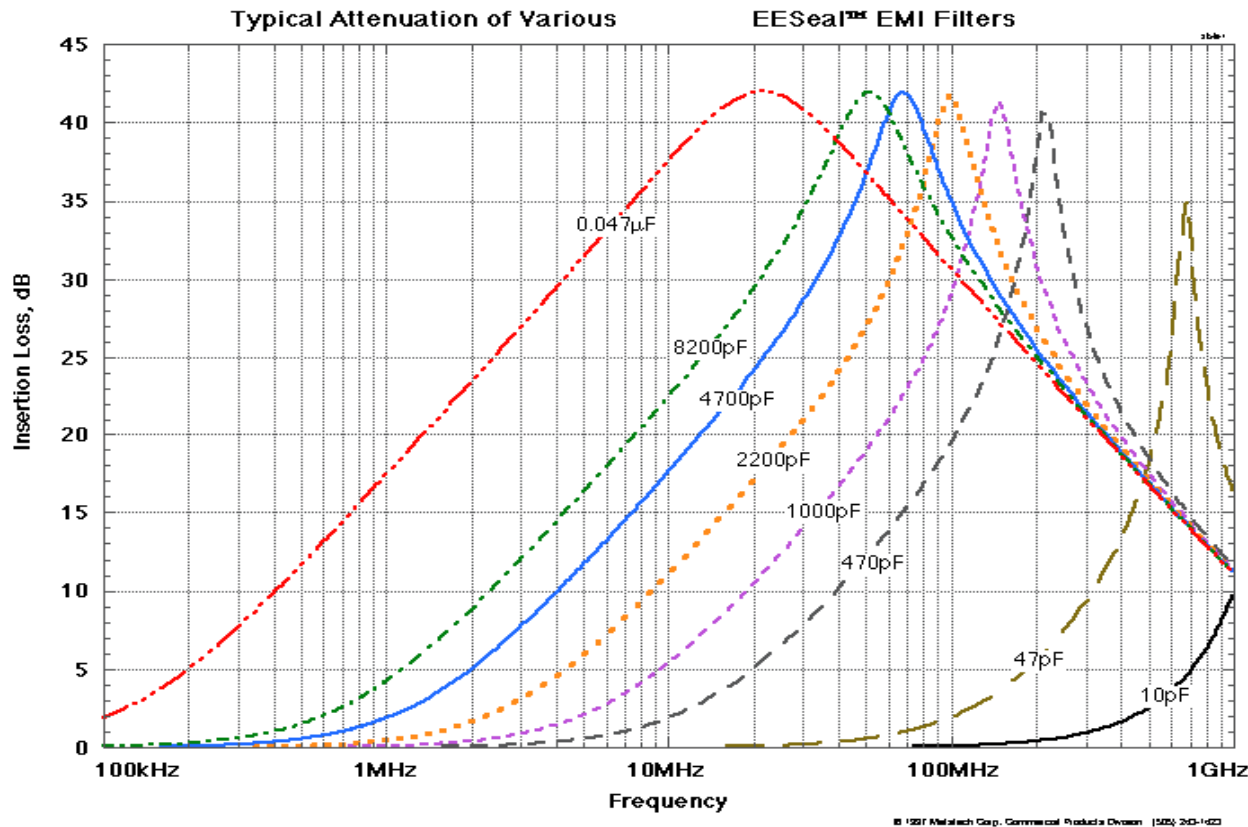
**DSub-type** (9, 15, 25 or 37 pin  
with various filters available)

**MS-circular available on a  
limited basis** (if we have what  
you want in stock, we'll sample  
it to you free of charge)

**Request a FREE custom  
prototype for most applications**

# EESeal<sup>®</sup> EMI Filter Performance

## Typical Attenuation of Various EESeal<sup>®</sup> FilterSeal EMI Filters



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# Typical Radiated Emissions "Success Story" Courtesy of a Satisfied Customer

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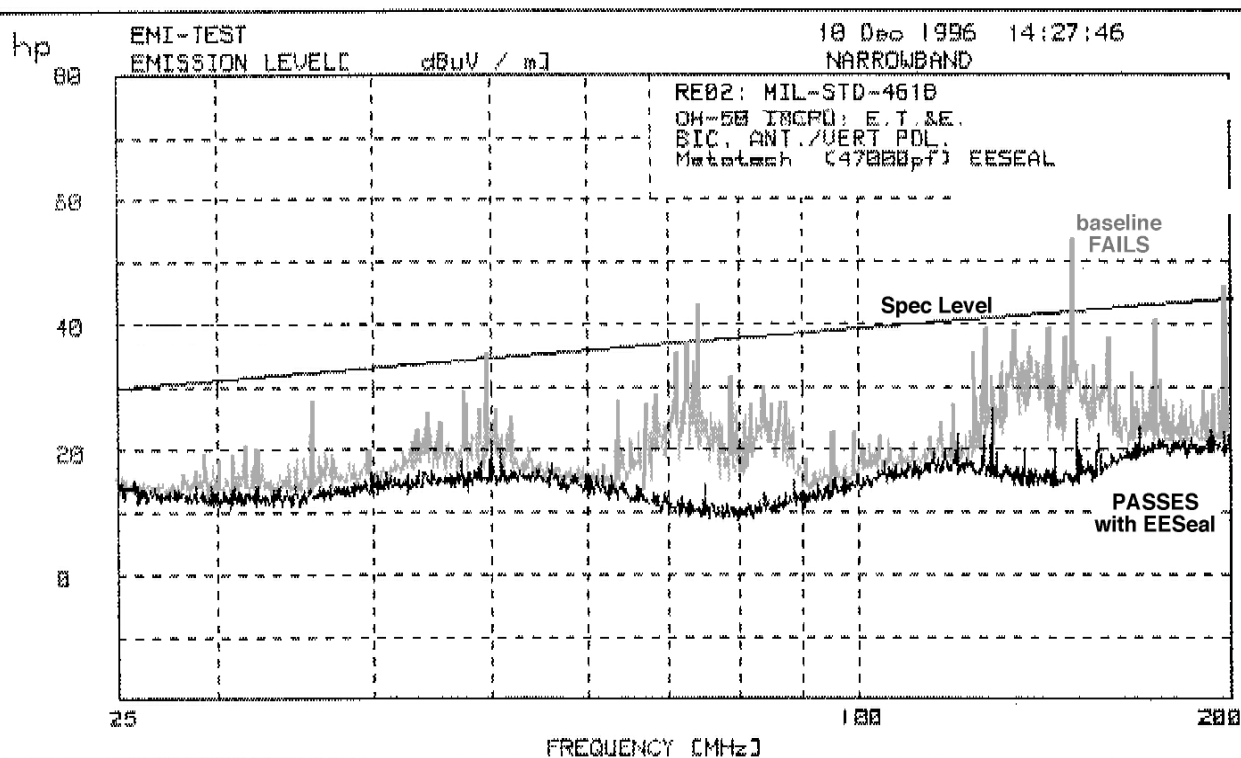
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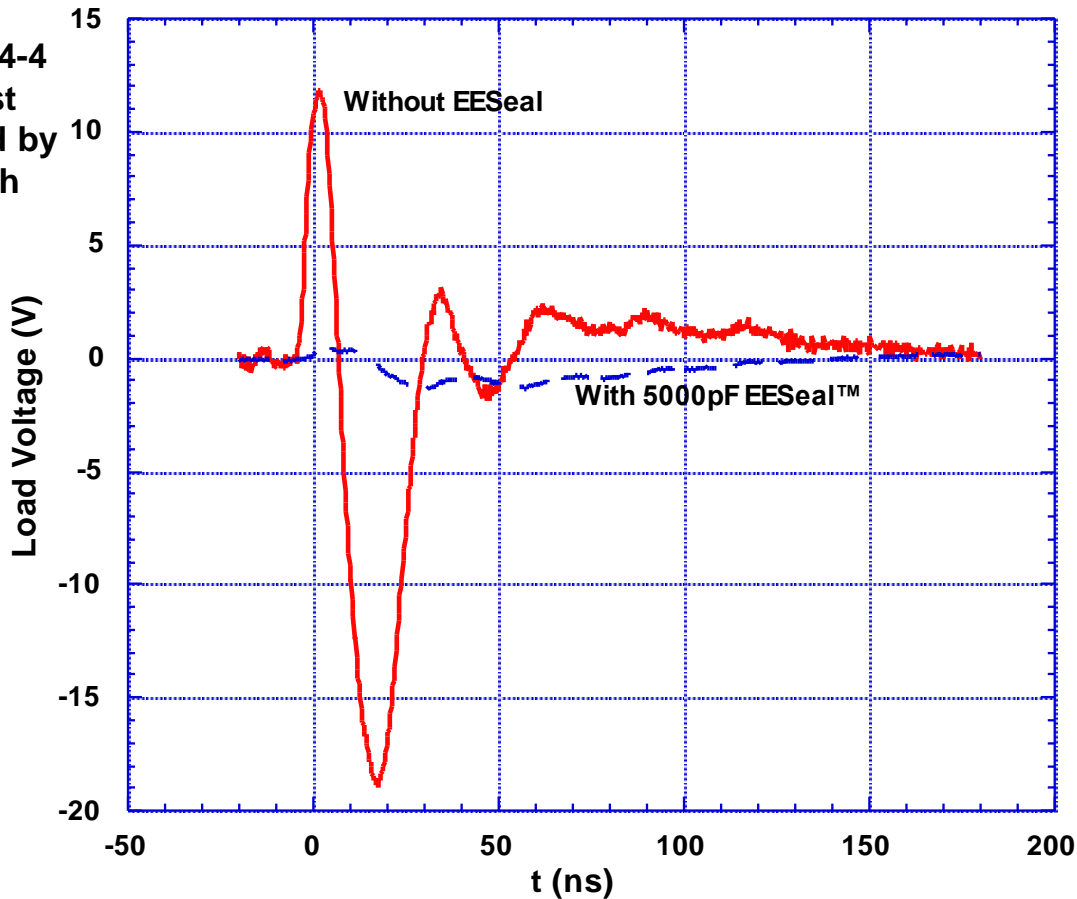
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# Transient Limiter Performance

EESeal® can limit fast transient voltages via either capacitive filtering (shown) or MOVs for non-linear clamping

## Load Voltage Protection -- 9 Pin DSub Connector



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# Independent Testing Shows EESeal® FilterSeals Are Unaffected By Extreme Mechanical & Environmental Abuse

**Shock:** MIL-STD-1344A Method 2004.1, Test Condition C (except 150g instead of 100g): 1/2 sine, 6 ms, 6 shocks/axis, total 3 axes

**Vibration:** MIL-STD-1344A Method 2005.1, Test Condition IV: 10-2000Hz, 20G, 4 hours/axis, 3 axes; MIL-STD-810E ¶514.4: 3.75Hz @ .07g to 33.75Hz @ 2.5g to 500Hz @ .002g/Hz, 4 hours/axis, 3 axes

**Salt Spray:** Method 1001.1: 48 hr exposure at 95°F

**Thermal Cycling:** RTCA/DO160C: -55C to +125C, 20 cycles

**Humidity Exposure:** RTCA/DO160C Category A: 95%RH @ 50C for 24hr, @ 30C for 24hr

**Temperature-Altitude:** MIL-STD-5400 ¶4.6.2.3 Class 1A: -55C to 125C, 30,000 ft

**Durability:** MIL-STD-1344A Method 2016: 250, 375 & 500 mate/demate cycles

**Fluid Immersion:** MIL-STD-1344A Method 1016: Fluids a, c, d & e with connectors mated

**Removal Re-Use Assessment:** EESeal® FilterSeal completely removed from 128pin MIL-C-38999 connector and re-inserted 12 times, full functional test after each cycle

**Porosity:** MIL-STD-1344A Method 1017

**Out-Gassing:** ASTM E595, Test A2LA: <1.0%wt TML, <0.1%wt CVCM

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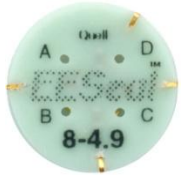
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# EESeals are Available for a Wide Range of Connectors

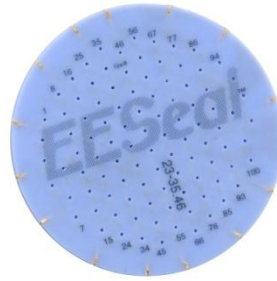
A Few Common Examples:



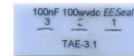
MIL-STD-5015



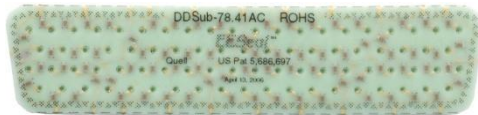
MIL-STD-26482



MIL-C-38999



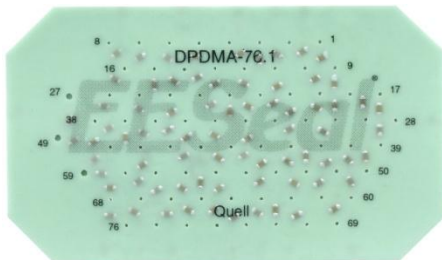
customs



High Density DSubminiature



DSubminiature



Avionics Rack Connectors



ARINC5

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