

NEW Hermetic Sealing



Terrapin connectors are often selected for their high degree of IP68 sealing to 20m immersion in water.

However for greater sealing or for high temperature and high pressure environments, these connectors can also be supplied with a glass to metal hermetic seal. Glass to metal seals facilitate an excellent level of hermeticity greater than $10^{-9}\text{cm}^3\text{sec}^{-1}$ at 1atm ΔP Helium. Various shell and pin materials are available dependant on the application.

NEW EMI Filtering

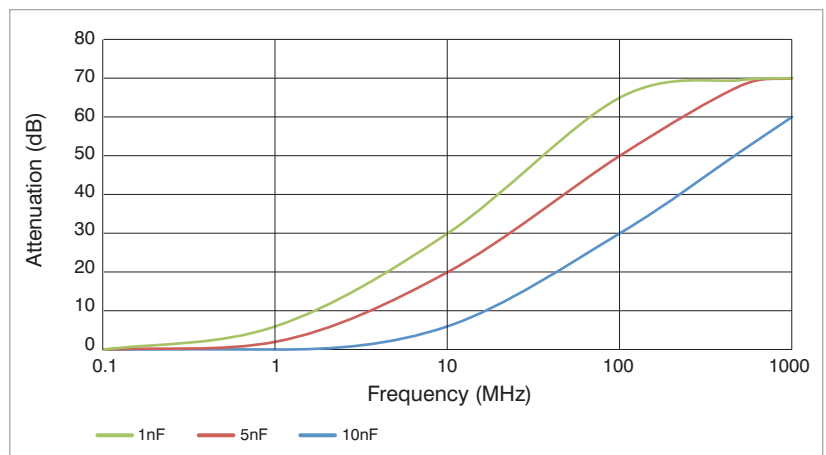


Terrapin connectors are also available with embedded EMI filter circuits. Planar filtering technology further enhances the renowned EMC performance of the Terrapin range and has minimal impact on the physical size of the connectors. Connectors can be supplied with either standard or customised Pi, C or LC filter circuits.

Embedding filtering eliminates the need for 'dirty' areas or additional filter boards and circuitry within a box, resulting in weight and space savings. Filtering within the connector also enables a low impedance path between filter and ground, mechanically and environmentally protected circuits and increased reliability. The mechanical design of the Filtered Terrapin connectors ensure that equipment is protected from unwanted signals and noise as well as the ingress of dust and moisture.

Pi filtering is achieved via dual capacitors with a single inductive element between them. This circuit arrangement provides excellent performance due to its sharp attenuation slope and is suitable for a variety of applications.

The typical frequency response of these three different Pi circuits is shown based on a 50Ω source and load impedance.



How to order

Contact factory for more information on part numbering and specification