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HAMAMATSU

ACCESSORIES FOR PHOTOMULTIPLIER TUBES

Socket Assemblies



Operating a photomultiplier tube requires a voltage divider. For easy and reliable use of photomultiplier tubes, Hamamatsu provides a complete line of socket assemblies which integrate a photomultiplier tube socket and a voltage divider into a compact package. The socket assemblies are classified into three types by function: the D type containing only a voltage divider; the DA type further including a preamplifier; the DP type having a voltage divider and a high-voltage power supply.

Magnetic Shield Cases



The E989 series magnetic shield cases were developed to protect photomultiplier tubes from the influence of magnetic fields. The E989 series is made of permalloy, a material of very high permeability (approximately 10E5). The magnetic field intensity within the shield case with respect to the external magnetic field can be attenuated down to 1/1000 to 1/10000, thus assuring stable output of photomultiplier tubes.

PMT Assemblies



Photomultiplier tube assemblies integrate a photomultiplier tube and a D-type or DP-type socket assemby into a matching magnetic shields. The D-type photomultiplier tube assemblies require a high-voltage power supply, while the DP-type includes a DC-DC converter high-voltage power supply and can be operated by simply supplying +15V.

High-Voltage Power Supplies

A variety of high-voltage power supplies are available, ranging from bench-top types to modular types which can be mounted on a PC board. In addition, newly added to out product line are miniature high-voltage modules

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Thermoelectric Coolers



Regardless of the presence of incident light, thermionic electrons are emitted from the photocathode and dynodes of a photomultiplier tube. This is a major factor that produces dark current. Therefore, cooling the photomultiplier tube can reduce these thermionic emissions and improve the S/N ratio. The C2761 is a thermoelectric cooler using Peltier elements that allow temperature settings in the range from -30 to 0 degree Celsius. The housing is designed to minimize the infulence of external electrostatic or magnetic field. The C2773 thermoelectric cooler is also provided for exclusive use with an MCP-PMT.

If you have comments or are requesting any information, please contact eigyou@etd.hpk.co.jp(PMT)

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