

HEC - Hum Eliminators

RF transmission in cables is routinely plagued by 50Hz or 60Hz hum or other interference. When a cable is used for video signals, small electrical currents caused by differences in ground potential (ground loops) or induced common-mode noise, can result in considerable hum interference. Cameras, video recorders, monitors and video effects generators are affected.

HEC Hum eliminators **work best** in those circumstances where interference is caused by small differences in ground potential (less than 20 volts) or by induced currents in long cable runs. They also work well when there are multiple power panels in a building, or on a single floor. Equipment and lighting loads result in small differences in potential which induce ground loop current flow and 60 Hz. hum. Electromagnetically-induced currents in long cable runs also create hum. For 50Hz and 60Hz power systems, and where induced currents are high, the HEC-2000 and HEC-2000H increase the attenuation at power frequency.

FEATURES & SPECIFICATIONS:

- Flat Response with no low or high frequency roll-off
- No Differential Gain or Phase Distortion
- Passive Device – No power required
- Bandwidth up to 30MHz
- Small, compact, rugged, waterproof package

APPLICATIONS:

- ❖ Between remote truck, Telco & Microwave
- ❖ For Inter-truck Hook-up
- ❖ For VTR Units
- ❖ For Monitoring lines
- ❖ Between or on long runs in buildings
- ❖ On Incoming or Outgoing Telco circuits



Which HEC type is right for your application?

HEC-1000

SINGLE CHANNEL HUM ELIMINATOR

Impedance: 75 (Ohms) Unbalanced
Bandwidth: DC to 30MHz 0.61dB @ 10MHz.
1.00dB @ 20MHz.
1.25dB @ 30MHz.
Hum Reduction: 50dB for 60Hz. hum, depending on system
Package: Hi-Impact ABS Plastic
Mounting: Four (4) 8-32 x 1/2" Inserts
Dimensions: H: 5-3/8" x W: 4" x D: 2"
Weight: 3 Lbs.
Insertion Loss: 0.2dB max.
Return Loss: 20dB min.
Isolation Between Channels: 70dB (Typical)



HEC-2000, HEC-2000H, HEC-2000V

SINGLE CHANNEL HUM ELIMINATOR

Impedance: 75 (Ohms) Unbalanced
Bandwidth: DC to 30MHz 0.75dB @ 10MHz.
1.20dB @ 20MHz.
1.50dB @ 30MHz.
Hum Reduction: 50dB for 60Hz. hum, depending on system
Package: Die Cast Metal
Mounting: Four (4) 6-32 x 1/2" Inserts
Dimensions: H: 4-11/16" x W: 3-11/16" x D: 2-1/16"
Weight: 3-1/2 Lbs.
Insertion Loss: 0.2dB max.
Return Loss: 20dB min.
Isolation Between Channels: 70dB (Typical)



HEC-3000

THREE CHANNEL HUM ELIMINATOR

Impedance: 75 (Ohms) Unbalanced
Bandwidth: DC to 30MHz 0.75dB @ 10MHz.
1.20dB @ 20MHz.
1.50dB @ 30MHz.
Hum Reduction: 60dB for 50 or 60Hz. hum
Package: Die Cast Metal
Mounting: Four (4) 6-32 x 1/2" Inserts
Dimensions: H: 7-7/16" x W: 4-3/4" x D: 3-1/16"
Weight: 6 Lbs.
Insertion Loss: 0.2dB max.
Return Loss: 20dB min.
Isolation Between Channels: 70dB (Typical)



