

CORCOM MRI LED LIGHTING FILTER

TE Connectivity's (TE) Corcom MRI LED lighting filters target MRI Rooms that are using Class II LED drivers to power the LED lights in an MRI room. MRI LED lighting filters will be located outside the shielded MRI room and will clean up conducted Electromagnetic interference (EMI) noise between 10KHz and 1GHz with a powerful 3 stage attenuation circuit that will bring insertion loss to 100dB. The electrical power within the MRI room needs to be supplied by clean power, allowing OEM light fixture manufacturers to comply with the low noise levels required by MRI equipment manufacturers.

MRI LED lighting filters are also available to installers for drop-in replacements and come in 2, 3, and 4 channel versions providing the scalability needed in developing fixtures for their customers. This also allows contractors the flexibility to choose the correct number of circuits to accommodate a specific installation.

BENEFITS

- Available options are scalable and price sensitive
- Compatible with 40V, 3A drivers
- Offers both differential and common mode noise filtering
- Attenuates EMI in a wide frequency range
- Filter is protected against radiated noise
- Excellent choice for high noise drivers

APPLICATIONS

- MRI rooms

ELECTRICAL

- Class II output 100W
- 3A / up to 40VDC

MATERIALS

- Steel enclosure
- Steel threaded pipe
- Easy connect terminal blocks

SPECIFICATIONS

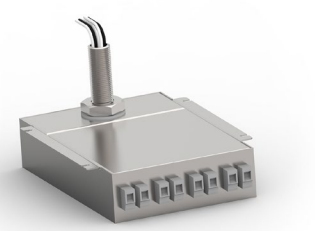
- Insertion Loss (typical): -100dB between 10Khz – 1Ghz
- Operating temperature rating: -10°C to +60°C



1-1609091-3



1-1609091-4



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MECHANICAL (dimensions - inches)

Catalog Part Number	Length	Width	Depth (add 2.52" for metal pipe)
MRI23100W	8.70	3.98	1.93
MRI33100W	8.70	5.35	1.93
MRI43100W	8.70	6.73	1.93

PRODUCT INFORMATION

Description	Catalog Part Number	Part Number
2 Channel MRI LED Filter	MRI23100W	1-1609091-3
3 Channel MRI LED Filter	MRI33100W	1-1609091-4
4 Channel MRI LED Filter	MRI43100W	1-1609091-5

INSERTION LOSS DATA

50 Ω to 50 Ω (Minimum) Insertion Loss

Frequency	10 kHz	50 kHz	100 kHz	500 kHz	1 MHz	5 MHz	50 MHz	100 MHz	500 MHz	1 GHz
Common Mode (dB)	90	100	100	100	100	100	100	100	100	100
Differential Mode (dB)	90	100	100	100	100	100	100	100	100	100

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1903112-2 2310537-1 3631B101LL SBCHE154R7K 1-794222-0 1743455-2 1969656-1 2834055-1
650075-000 ROX05SJ18R 3430B2F51RTDF SBCHE64R7K U5254-000005-030PA 1393431-1 2377783-2
917696-1 936348-1 2005330-1 3-1393225-0 RH73H2A40MKTN 141991-2 2-292161-3 TE50BR39J