



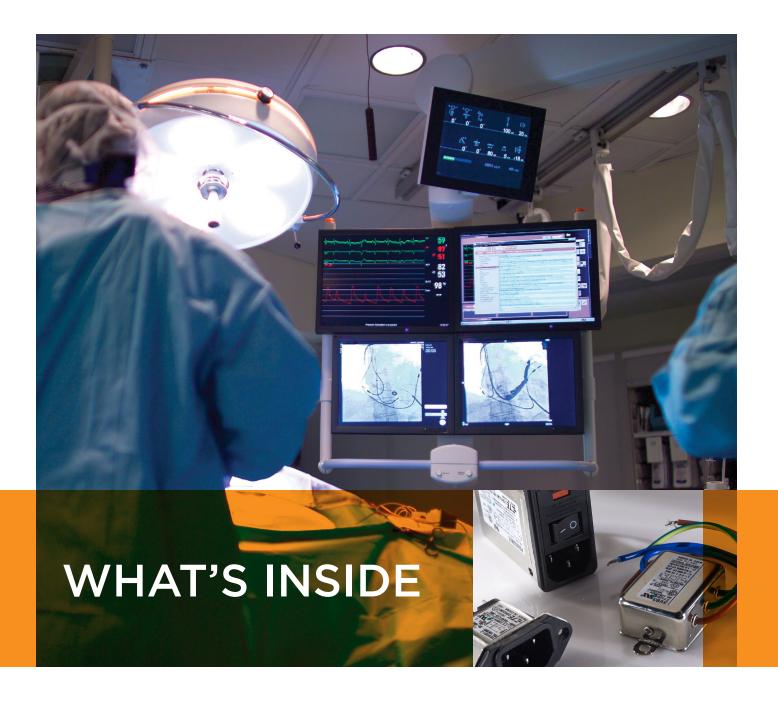




## CORCOM

EMI Filters for Medical Application - Product Overview





TE Connectivity's (TE) Corcom brand of EMI filters has over 80 different product series to resolve EMI noise issues helping companies comply with local compliance emission standards. Corcom filters are available in a wide-range of single and three phase designs as well as IEC inlet and power entry modules which can combine to save cost, space and labor. The medical filters are designed to minimize leakage current and help meet system level leakage current standards.



ATTENUATION PERFORMANCE

SERIES MV HZ



GOOD



Approvals	UL/CSA/VDE	UL/CSA/VDE
Features	<ul> <li>Multi-purpose medical filter</li> <li>Improved Line to Ground performance</li> <li>A good solution to emission or immunity problems</li> <li>Meets leakage current requirements of UL2601 for health care equipment</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>	<ul> <li>Designed to provide good attenuation to RFI noise in the frequency range from 10kHz to 30MHz</li> <li>Size and cost-effective</li> <li>Low leakage current</li> <li>New versions up to 30A</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>
ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	3, 6, 10 or 20A	3, 4, 6, 10, 15, 20 or 30A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	0.07mA / 0.13mA	0.002mA / 0.005mA
Electrical Setup	Single Stage	Single Stage
MECHANICAL PARAMETERS		
Mounting Features	Screw Mounting	Screw Mounting
Termination Inputs	0.250 (6.3mm) spade terminals	0.250 (6.3mm) spade terminals 8-32 terminal bolt & nut
Termination Outputs	0.250 (6.3mm) spade terminals	0.250 (6.3mm) spade terminals 8-32 terminal bolt & nut
TYPICAL APPLICATIONS		
	<ul><li>Dental Lighting</li><li>Medical Imaging Equipment</li><li>Therapeutic Equipment</li></ul>	<ul><li>Medical X-Ray Equipment</li><li>Medical Imaging Systems</li><li>Ultrasound Equipment</li></ul>



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ATTENUATION PERFORMANCE	BETTER	BEST
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Approvals	UL/CSA/VDE	UL/CSA/VDE

ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	3, 6, 10 or 15A	3 or 6A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	0.002mA / 0.005mA	0.002mA / 0.005mA
Electrical Setup	Single Stage	Single Stage
MECHANICAL PARAMETERS		
Mounting Features	Screw Mounting	Screw Mounting
Termination Inputes	0.250 (6.3mm) spade terminals 8-32 terminal bolt & nut Wire Leads IEC inlet 0.250 (6.3mm) spade terminal	IEC Inlet 0.250 (6.3mm) spade terminals Wire Leads
Termination Outputs	0.250 (6.3mm) spade terminals 8-32 terminal bolt & nut Wire Leads 0.250 (6.3mm) spade terminals	0.250 (6.3mm) spade terminals Wire Leads
TYPICAL APPLICATIONS		
	<ul> <li>Radiopharmaceuticals for medical imaging applications</li> <li>Dental Laser Equipment</li> <li>Modular Instrument Panels</li> </ul>	<ul><li>Patient Monitors</li><li>Visual electrophysiology systems</li><li>Florescent Imagers</li></ul>



SERIES BCFXR



ATTENUATION PERFORMANCE	GOOD
Approvals	UL/CSA/VDE
Features	<ul> <li>Designed for universal applications</li> <li>Compact book-form design</li> <li>Insulated, high quality safety terminals for input and output terminals</li> <li>Good common and differential mode performance below 100kHz</li> <li>Operating Temperature Range -10°C to +50°C</li> </ul>

ELECTRICAL PARAMETERS	
Max. Voltage	480VAC
Current Rating	7, 16, 30, 42, 55, 75, 100, 130, and 180
Leakage Current each Line to Ground @480VAC 50/60Hz	8.7mA
Electrical Setup	Single Stage
MECHANICAL PARAMETERS	
Mounting Features	Screw Mounting
Termination Inputs	Touchsafe Terminal Blocks or Threaded Stud Terminals
Termination Outputs	Touchsafe Terminal Blocks or Threaded Stud Terminals
TYPICAL APPLICATIONS	
	<ul> <li>The BCFxR eliminate nuisance tripping of Residual Circuit Breakers and GFCI's.</li> <li>3Phase Inverters and Converters</li> <li>Variable Speed Motor Drives</li> <li>Elevators and Escalators</li> </ul>

• Elevators and Escalators



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ATTENUATION	GOOD	BETTER
Approvals	UL/CSA/VDE	UL/CSA/VDE
Features	<ul> <li>Minimal leakage current suitable for medical equipment</li> <li>Two element circuit provides basic EMI attenuation above 1 MHz</li> <li>Available with an internal ground circuit inductor (C suffix versions) to isolate equipment chassis from power line ground at radio frequencies</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>	<ul> <li>General Performance EMI Filter</li> <li>V-Lock cord Compatible</li> <li>Shielded Filter Assembly</li> <li>Small, Compact Size</li> <li>Quick Disconnects</li> <li>Compliant to IEC 60601</li> </ul>

ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	3, 6, 10, or 15A	1 to 15A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	0.002mA / 0.005mA	0.002mA
Electrical Setup		Single Stage
MECHANICAL PARAMETERS		
Mounting Features	Flange or Snap-In	Screw and snap-in mounting
Line Inlet	IEC 60320-1 C14 0.250 (6.3) Spade Terminals Wire Leads	IEC 60320-1 C18
Backplate Terminals	0.250 (6.3) Spade Terminals 4 Wire Leads	0.25 (6.3) spade terminals
TYPICAL APPLICATIONS		
	• TBD • TBD • TBD	Wide band RFI suppression for applications with limited space including:  • Medical Equipment  • Laboratory Equipment  • Test and Measurement
TYPICAL ACCESSORIES		
	GA 400: NEMA 5-15P to IEC 60320-1	

GA 400: NEMA 5-15P to IEC 60320-1

C13 Line Cord

FA601: Insulating Shroud



SERIES	EJH	EJM
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ATTENUATION	BETTER	BEST
Approvals	UL/CSA/VDE	UL/CSA/VDE
Features	<ul> <li>Minimal leakage current suitable for patient contact medical applications</li> <li>Flanged mounting the same as the EEJ Series</li> <li>Also available in snap-in versions (EJHS)</li> <li>Two element circuit provides modest EMI attenuation above 1MHz</li> <li>Capacitive input (refer to the H Series for capacitive output)</li> <li>EJHS models feature snap-in mounting</li> </ul>	<ul> <li>Low leakage current, suitable for most medical applications</li> <li>Improved EMI attenuation up to 200MHz</li> <li>Mechanically the same as the EEJ Series with flange or snap-in mounting</li> <li>EJMS models feature snap-in mounting</li> <li>Operating Tempperature Range: -10 to +40C</li> </ul>
ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	1 to 20A	1 to 20A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	EEJ/EJS Models: .22 mA / .38 mA EJH Models: 2ųA / 5ųA EJM Models: .01 mA / .017 mA	EEJ/EJS Models: .22 mA / .38 mA EJH Models: 2ųA / 5ųA EJM Models: .01 mA / .017 mA
Electrical Setup	Single Stage	Single Stage
MECHANICAL PARAMETERS		
Mounting Features	Screw and snap-in mounting	Screw and snap-in mounting
Line Inlet	IEC 60320-1 C14 or C20	IEC 60320-1 C14 or C20
Backplate Terminals	.25 [6.3] spade terminals, wire leads or PC board pins	.25 [6.3] spade terminals, wire leads or PC board pins
TYPICAL APPLICATIONS		
TYPICAL ACCESSORIES	Wide band RFI suppression for a wide range of applications including:  • TV / Audio / Video  • Computing & accessories  • Home appliances  • Medical equipment	Wide band RFI suppression for applications with limited space including:  • TV / Audio / Video  • Computing & PC powers supplies  • Network & cabeling systems  • Medical equipment
	GA 400: NEMA 5-15P to IEC 60320-1 C13 Line Cord FA601: Insulating Shroud	GA 400: NEMA 5-15P to IEC 60320-1 C13 Line Cord FA601: Insulating Shroud



SERIES	С	HG
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VERSATILITY	GOOD	
Approvals	UL/CSA/VDE	UL/CSA/VDE
Features	<ul> <li>Two function power entry module combining a DPST switch and an IEC 60320-1 inlet</li> <li>Snap-in or flange mounting</li> <li>Available with or without a shielded general purpose or medical grade filter</li> <li>Two element circuit provides enhanced EMI attenuation</li> <li>Reduce OEM wiring time with optional pre-connected line and switch terminals</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>	<ul> <li>Power entry module with enhanced EMI filter</li> <li>Single or dual fusing</li> <li>Two element circuit provides basic attenuation</li> <li>Available with an internal ground-circuit inductor (C versions) to isolate equipment chassis from power line ground at radio frequencies</li> <li>Multiple termination and mounting styles</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>
ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	1, 3, 6, 10 or 15A*	1, 3, 6 & 10A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	F models: .25 mA / .40 mA H & non-filtered models: 2ųA / 5ųA	HG Models: 2ųA / 5ųA
Electrical Setup	Single stage & unfiltered	Single stage (medical versions without y-capacitors)
Fusing	N/A	Dual Fusing -5 x 20mm
Switch	DPST - 10K Cycles @ 51A Max Inrush	N/A
MECHANICAL PARAMETERS		
Mounting Features	Screw and snap-in mounting	Screw and snap-in mounting
Line Inlet	IEC 60320-1 C14	IEC 60320-1 C14
Backplate Terminals	.187 [4.8] spade terminals (non-filtered) or .25 [6.3] spade terminals (Filtered) Available with or without pre-connected switch terminals	.25 [6.3] spade terminals or wire leads
TYPICAL APPLICATIONS		
TYPICAL ACCESSORIES	Wide band RFI suppression for applications with limited space including:  • TV / Audio / Video  • Computing & PC powers supplies  • Network & cabeling systems  • Medical equipment  GA 400: NEMA 5-15P to	Wide band RFI suppression for applications with limited space including:  • TV / Audio / Video  • Computing & PC powers supplies  • Network & cabeling systems  • Medical equipment  GA 400: NEMA 5-15P to
	IEC 60320-1 C13 Line Cord	IEC 60320-1 C13 Line Cord



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VERSATILITY	BE	TTER
Approvals	UL/CSA/VDE	UL/CSA/VDE
Features	<ul> <li>Power entry module with switch or fuse</li> <li>Two element circuit provides extended EMI attenuation similar to EAB inlet filter</li> <li>North American or metric fuse holders</li> <li>Available with minimal leakage current for medical applications (HL models)</li> <li>4 Position Voltage Selector</li> <li>Operating Temperature Range: -10 to +40C</li> </ul>	<ul> <li>Family of slim power entry modules that consume minimal depth behind panel</li> <li>Four compact modules each provide a different option combination</li> <li>Available non-filtered or with one of four filter circuits designed to meet a wide variety of applications</li> <li>Optional voltage selector configured for either 2 or 4 voltage selection</li> <li>Optional DPST on/off switch</li> <li>Included fuseholder accepts either single 3AG fuse or dual metric fuses</li> </ul>
ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	250VAC
Current Rating	2, 4, or 6A	3, 5, or 6A
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	0.002mA / 0.005mA	H Model: 0.002mA / 0.005mA
Electrical Setup		
Fusing	North American or Metric Fuses	North American or Metric Fuses
Switch	DPST - 10K Cycles @51A Max Inrush	DPST - 100K Cycles @70A Max Inrush
MECHANICAL PARAMETERS		
Mounting Features	Flange or Snap-In	Flange or Snap-In
Line Inlet	IEC 60320-1 C14	IEC 60320-1 C14
Backplate Terminals	0.188 (2.8)	0.110 (2.79)
TYPICAL APPLICATIONS		
	<ul> <li>Very good common and differential mode performance at higher frequencies</li> <li>3D C-Arms</li> <li>Medical X-Ray Equipment</li> </ul>	<ul> <li>H Models provide a basic performance dual element circuit EMI filter with minimal leakage current</li> <li>Rehabilitative Medical Products</li> <li>RF Nerve Ablation Machines</li> </ul>
TYPICAL ACCESSORIES		
	GA 400: NEMA 5-15P to IEC 60320-1 C13 Line Cord LA303: Voltage Select Whel, 3 Position LA304: Voltage Select Whel, 4 Position LA601: Insulating Boot	GA 400: NEMA 5-15P to IEC 60320-1 C13 Line Cord MA100: Power Interconnect Assembly MA101:Plug Only MA102: Strip of 100 Pins for use with MA101 MA104: Individual Pins for use with MA101



## SERIES P







VERSATILITY	BEST	
Approvals	UL/CSA/VDE	
Features	<ul> <li>Compact Design and Versatility allows User to Choose Feature Set They Need</li> <li>H models provide susecptibility protection with minimal leakage current</li> <li>L models feature a high performance medical filter designed to bring in digital equipment into complaince with EN55022, Level B conducted emmissions limits.</li> </ul>	
	<ul><li> Two voltage selection options</li><li> Optional DPST on/off switch</li><li> Operating Temperature Range: -10 - +40C</li></ul>	

ELECTRICAL PARAMETERS		
Max. Voltage	250VAC	
Current Rating	3, 6 & 10A Filtered, 10A non-filtered	
Leakage Current each Line to Ground @ 120VAC 60Hz/250 VAC 50 Hz	H & L Models: 2ųA / 5ųA	
Electrical Setup	Single stage	
Fusing	North American or Metric Fuses	
Switch	DPST - 10K Cycles @51A Max Inrush	
MECHANICAL PARAMETERS		
Mounting Features	Screw and snap-in mounting	
Line Inlet	IEC 60320-1 C14	
Backplate Terminals	.187 [4.8] spade terminals(standard) or .25 [6.3] spade terminals (L & Z) Available with or without interconnection block for unfiltered versions	
TYPICAL APPLICATIONS		
	Wide band RFI suppression in over 8000 configurations for a wide range of applications including:  • TV / Audio / Video  • Computing & accessories  • Home appliances  • Medical equipment	
TYPICAL ACCESSORIES		
	GA 400: NEMA 5-15P to IEC 60320-1 C13 Line Cord PA100: Power Interconnect Assembly PA101: Plug Only PA102: Pins only for use with PA101 PA105: Same as PA100 but with two wires fro units with no voltage selection	



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