SHORT FORM CATALOG
FEBRUARY 2020

EMC/EMI Components and Quality Filters for LED

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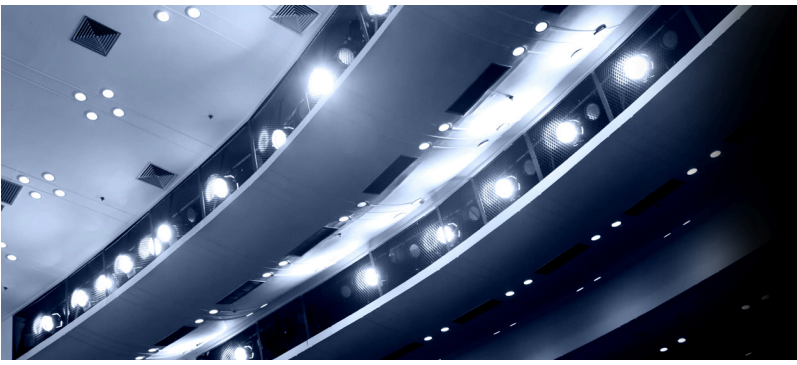


Typical LED Lighting Applications Include:

- Lighting equipment
- Street and road lighting
- Street lamps, signage/billboards
- Industrial and architectural lighting
- Household lighting
- Gardening/landscaping/ grow lighting

IEC Inlet Filters/Power Entry Modules

FN 9244 (page 3)
FN 9244(E) (page 3)
FN 9255(E) (page 3)

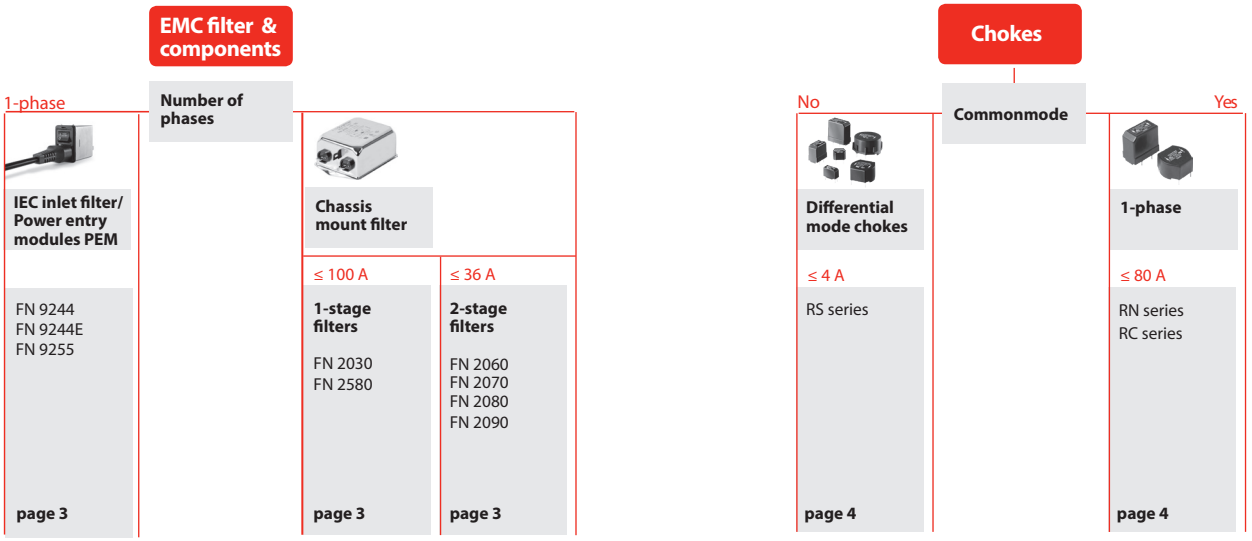
Single-phase Filters and DC Filters

FN 2030 (page 3)
FN 2080 (page 3)
FN 2580 (page 3)

EMC/EMI Chokes

RN Series (page 4)
RC series (page 4)
RS Series (page 4)

Product Selection Chart



IEC inlet filters / Power entry modules.

All the advantages of IEC connector, EMC/EMI filter, fuses, switch and voltage selector combined in a powerful compact all-in-one solution.

Filter family	Approvals *	Max. voltage	Attenuation performance / Rated current [A] (standard / high / very high; 0 4 8 12 16 20)	With earth line choke	For fuse(s)	With switch (1-pole)	With switch (2-pole)	With voltage selector	For PCB mounting	Snap-in version	Extra wide mounting
FN 9244 FN 9244E 		250 VAC	1 – 15	■						■	■
FN 9255 		250 VAC	2 – 20							■	

* Products evaluated by one or more of the above certific tion agencies. For details please consult the detailed data sheet.

Single-phase and DC filters.

Single-phase filters for chassis or DIN-rail mounting are key for EMC compliance of higher power medical machines equipment and low to medium power medical applications. A broad selection of electrical and mechanical features allows a specific choice and deployment for countless applications. DC filters are specifically optimized for applications with DC supply like e.g. PV inverters.

Filter family	Approvals *	Max. voltage	Attenuation performance / Rated current [A] (standard / high / very high; 0 20 40 60 80 100)	1-stage fil er circuit	2-stage fil er circuit	3-stage fil er circuit	For DC applications	With overvoltage protection	Low frequency attenuation	High frequency attenuation	Choice of connection style	DIN-rail mounting
FN 2030 		250 VAC	1 – 30	■				■	■	■	■	
FN 2580 		350 VAC	2 – 8		■				■			
FN 2080 		250 VAC	1 – 16		■				■		■	

EMC/EMI chokes.

An extensive selection of discrete EMC/EMI chokes with various inductance and current ratings allows optimized circuitry for EMC compliance to be designed easily and economically.

Choke family	Approvals *	Max. voltage	Inductance value [mH] / Rated current [A] (0 20 40 60 80 100 / 0 30 60 90 120 150)	Features: For common-mode noise	Saturating chokes	Single-choke	Dual-choke	Triple-choke	Quad-choke	PCB mounting	With flying leads	Typical applications: Frequency converters, UPS	Medical equipment	Traction systems	DC/DC or AC/DC converters	Switch-mode power supplies	Home electronics, TV, balasts	Battery chargers	Heaters, air conditioners
RN series 		300 VAC 300 VDC	0.4 – 100 0.3–10	■			■			■		■	■			■	■	■	■
RS series 		250 VAC	0.003–3.6 0.5–4			■	■			■	■	■	■	■	■	■	■	■	■
NEW RC series 		250 VAC	4.7 – 47 0.25–0.7	■		■	■			■		■	■		■	■	■	■	■

* Products evaluated by one or more of the above certification agencies. For details please consult the detailed data sheet.

** forced cooling

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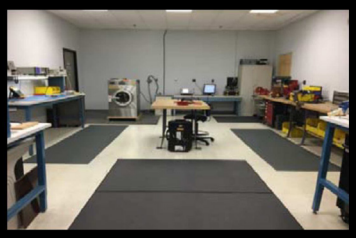
EMC SAMPLE & DESIGN CENTER

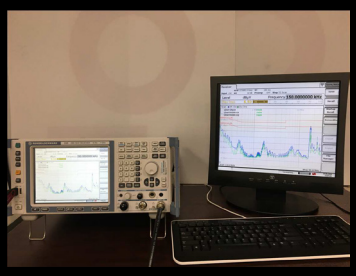
Our expert engineering team can help avoid future EMI/EMC related issues by analyzing designs, building quick-turn prototypes, and working with the customer right through the testing phase.

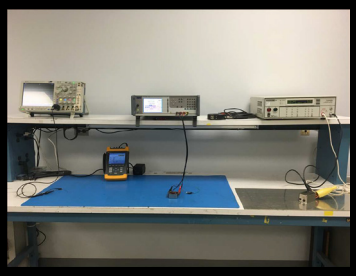
- **Rapid prototype delivery of custom RFI/EMC filters**
  - ✓ Material on hand to wind cores, assemble filters and produce samples for all types of filters
  - ✓ Cost effective approach with safety in mind in order to comply with various industry standards including UL/CSA/IEC/EN
  - ✓ Simulation of expected insertion loss: Leakage currents, residual voltage, thermal characteristics and core saturation
  - ✓ Hi-pot and insulation resistance testing of final samples
  - ✓ 3-D mechanical housing design meeting custom layouts, size, installation and connection requirements

- **Pre-Compliance testing service and consultation**
  - ✓ Test / Consult can be in-house, on customer site or at their local test house in order to achieve the optimal EMC solution for the customer's end product
  - ✓ Analyze the conducted emissions profile of a customer's existing design and provide the best cost effective filter solution for meeting EMC requirements
  - ✓ This could result in utilizing one of our standard filters or a custom solution
  - ✓ Conducted emissions are performed using the latest technology in test equipment for close correlation with test lab compliance results
  - ✓ Testing to FCC part 15 and European standards, (i.e. EN61000 series, EN55011, EN55014, EN55015, EN55022, CISPR16)

Over 40 years of engineering experience solving EMC related issues







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Product Types
- Ecosine active
- EMC/EMI
- Power quality

Responsible For
- USA
- Brazil
- Canada
- Mexico