

Technical Specifications

All models, except where stated otherwise

Device

Passive high performance line filter

Electrical construction

Custom aluminium case, fully grounded and protected. Using parallel filters for increased power handling and total isolation of connected devices after filtering. Highest quality parts from world renown sources (Wima, Germany; Radiohm, France, etc). All parts with full CE specifications.

Mechanical Construction

Frame beam case construction, all aluminium, using custom high pressure extruded profiled beams. Insets of aluminium plates. High torque screws.

Connections

European style Schuko or international style IEC, or US style receptacles (US sockets optional at extra charge). Input via IEC socket or captive custom cable, terminated with Schuko plug or bare wire, depending on the market, or customer requirements.

Power handling

210...240 VAC, 50/60 Hz - 10 amperes per filter, 2.1...2.4 kVA per high power filter
210...240 VAC, 50/60 Hz - 6 amperes per filter, 1.26...1.44 kVA per medium power filter

Insertion loss

Approximately 0.7 V, 210...240 VAC 50/60 Hz

Energy storage

Approximately 0.04 joules

Fuses

210...240 VAC 50/60 Hz 10 amperes nominal (long term)
210...240 VAC 50/60 Hz 6 amperes nominal (long term)

Filter section overload margin

Minimum 200% over nominal threshold before saturation (all protection short circuited). Typically around 300% above nominal power handling in short term impulses ($T \leq 20$ msec) before onset of saturation.

Minimum guaranteed specifications

All above figures were measured at 220 VAC, 50 Hz, at full rated power handling, i.e. at 9.9 amperes (0.1 A below nominal fuse triggering point). At lower power levels, figures improve by 1-2 dB.

DeZorel series:

Frequency	Min. guaranteed	Typical
12 kHz	- 15 dB	- 18 dB
24 kHz	- 33 dB	- 37 dB
48 kHz	- 38 dB	- 42 dB
96 kHz	- 43 dB	- 48 dB
192 kHz	- 48 dB	- 54 dB
384 kHz	- 53 dB	- 59 dB
600+ kHz	- 62 dB	- 68 dB

DMD Research Series:

Frequency	Min. guaranteed	Typical
12 kHz	- 18 dB	- 22 dB
24 kHz	- 36 dB	- 43 dB
48 kHz	- 42 dB	- 49 dB
96 kHz	- 48 dB	- 56 dB
192 kHz	- 54 dB	- 62 dB
384 kHz	- 60 dB	- 68 dB
600+ kHz	- 70 dB	- 78 dB

Crosstalk, filter to filter

Better than -120 dB (1 million to one), one device to any other

RF breakthrough

Below any publicly available standard requirements, in->out=out->in

Operating temperature

-20...+40 degrees centigrade (4...104 degrees Fahrenheit) ambient

Generated temperature

Maximum +3 deg. Centigrade (+6 deg. Fahrenheit) at maximum ambient and full load

Operating humidity

10...85% air humidity (receptacle limited)

Operating altitude

0...10,000 m (0...33,500 ft) relative to sea level.

Internal wiring

Silicon insulated OFC multi strand wire.

Captive cable (if used)

OFC three conductor cable, 3x1,5 mm cross section on small case models, 3x2,5 mm cross section on large case models, rolled in oiled paper, and insulated by natural rubber.

IEC socket power input

Current rating 16 amps per UR, 10 amps per CE and IEC standards, multiple safety certificates on socket. Type 321 male. Protection fuse integrated.

Tolerances

DeZorel series - 0.5% symmetry deviation or better.
DMD Research series - 0.1% symmetry deviation or better.

Operating mode

True balanced, fully floating mode. Completely symmetrical operation. Do not require grounding for full effect operation.

DeZorel Duet / DMD Research LPF-1 dimensions

220 x 370 x 95 mm (7.9 x 14.7 x 3.7 inches) WxDxH inc. protrusions
Mass app. 3 kilos (app. 6.6 lbs) net
Mass app. 4 kilos (app. 8.8 lbs) packed

DeZorel Quartet / DMD Research LPF-2 dimensions

440 x 370 x 95 mm (17.3 x 14.7 x 3.7 inches) WxDxH inc. protrusions
Mass 6.4 kg (app. 14.7 lbs) net
Mass app. 7.5 kg (app. 19.3 lbs) packed

DeZorel Sextet / DMD Research LPF-3 dimensions

Dimensions 440x370x95 mm (17.3x14.7x3.7 inches)

Mass 8 kg (app. 18.4 lbs) net

Gross shipping weight 9 kg (21 lbs) packed

Some Design Notes

DeZorel filters available in natural aluminium gray colour only.

DMD Research filters available in deep black gloss ("piano finish") colour only.

Front status indicator LEDs in blue.

Outputs color coded (European Schuko version only).

Integrated IEC power input socket with safety fuse.

Spare fuses included in standard shipping.

DeZorel®

DMD Research®

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