PRODUCT FAMILY DATASHEET

Mini LED Modules

Modules from 12 x 8 x 8.5 mm upward for narrow strokes, small letters and signs with only 30 to 50 mm of internal depth, where a full-size module physically will not fit inside the return.

What This Family Is For

Thin letters, small logos and shallow returns. These are the models that fit where nothing else does, and they still publish IP68 and the same five year warranty as the full-size range.

Products In This Family

Product	Group	Summary
JDS-3208B	Bezel-Free Series 3208B	208 lm/W mini module, 32 x 8 x 8.5 mm, IP68, 100 modules per double-ended run, for signs 30 to 50 mm deep.
JDS-1208B	Bezel-Free Series 1208B	The smallest module published here at 12 x 8 x 8.5 mm, 0.36 W, IP68, for narrow strokes in signs 30 to 50 mm deep.
JDS-1812B	Bezel-Free Series 1812B	Single-lens mini module, 18 x 12 x 9 mm at 170 lm/W and IP68, 100 modules per double-ended run.

Published Specification

Property	Value
Model	JDS-3208B
Series	Bezel-Free Series 3208B
Module size	32 x 8 x 8.5 mm
Input voltage	DC 12 V
Power	0.72 W per piece
Luminous efficacy	208 lm/W
Luminous flux	150 +/-3 lm per piece at 10000K, 6500K and 3000K
Beam angle	120x170 deg
Ingress protection	IP68
Cascade limit	50 modules single-ended, 100 modules double-ended power feed
Colour options	Warm white, white, cool white, red, green, blue, yellow
Sign depth designed for	30-50 mm
Operating temperature	-20 to +50 C
Storage temperature	-30 to +80 C
Warranty	5 years
Packing	50 pcs per bag, 200 pcs per box, 5000 pcs per carton

Property	Value
Carton weight	18 kg
Carton dimensions	50 x 35 x 30 cm

Figures are reproduced from the manufacturer's published specification and may be revised. Rows reading 'not published' are figures the source specification does not publish; they are confirmed in writing rather than estimated. Confirm the current revision with your quotation.

Why Buyers Choose This Range

- Bodies from 12 x 8 x 8.5 mm upward
- IP68 on all three models
- 100 modules per double-ended run, twice the full-size limit
- Up to 208 lm/W, the highest efficacy figure on this site

Problems It Solves

- A thin script letter that no standard module will physically pass into.
- A 30 mm return lit with a module rated for a 100 mm cavity, which burns a bright line up the middle of the stroke.
- Too few feed points on a long run of small modules.
- Small modules sold without an IP rating because nobody expects one at that size.

Who It Is For

- Fabricators of thin-stroke and script lettering
- Makers of small logo signs and door plates
- Contractors working on shallow-return fascia retrofits
- Distributors covering the narrow end of the depth range

Application Scenarios

- Script and handwriting-style channel letters
- Small logo signs and reception lettering
- Shallow-return fascia retrofits
- Narrow strokes inside otherwise large characters

Materials

- Injection-moulded housing with the optic moulded in, rather than a lens glued on afterwards.
- Potting compound filling the cavity around the board, which is what carries the IP rating.
- Pre-tinned lead wires on both ends for cascading, cut to the published module pitch.
- 3M backing tape on the models where the specification lists it, for direct mounting to the inside of a return.

Manufacturing Process

1. Patch - SMT placement of the emitters onto the module board, photographed as stage one on the factory's own process board.
2. Solder wire - Lead wires are soldered and strain-relieved before the housing is closed.
3. Injection moulding - The housing and the optic are moulded together, then the cavity is potted.
4. Testing - Electrical test under load before the module leaves the line.
5. Back glue - 3M backing tape is applied to a cleaned housing on the models specified with it.
6. Aging - Finished modules are run on the aging rack before packing.

Customisation Options

- Colour temperature selected per order from the published options rather than held as one stock colour.

- Lead wire length and module pitch cut to the sign layout instead of a default spacing.
- OEM and ODM work: the source site states that OEM and ODM are supported for customers in all markets.
- Packing quantity per bag and per carton adjusted to how the modules will be issued on the fabrication floor.

Certification Standards

Production follows CE, RoHS, LVD, IP68 test report, UL. Certificates are sent per model and destination market on request.

Questions Buyers Ask

How shallow a sign will these light?

All three models publish a 30 to 50 mm depth band. Below 30 mm the face sits too close to the lens and the module pattern shows.

Why do mini modules cascade further than full-size ones?

They draw less current per piece, so the same conductor carries more of them before voltage drop becomes visible. The published figures are 50 single-ended and 100 double-ended.

Are they as well sealed as the larger modules?

All three publish IP68, which is the higher of the two ratings used across this range.

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