

Standard

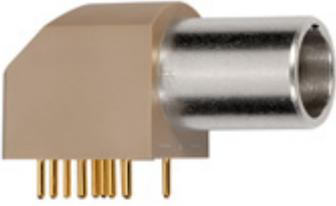


Image for illustrative purpose only

## Summary

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[Customer Drawing](#)

|                                |                                    |
|--------------------------------|------------------------------------|
| Number of contacts Low Voltage | 7                                  |
| Gender                         | Standard                           |
| Socket / Receptacle            | Socket / Receptacle - Elbow        |
| Locking system                 | Push-pull                          |
| Size                           | 1B                                 |
| Suggested matching part        | <a href="#">FGG.1B.307.CLAD62Z</a> |
| Series                         | B - Indoor keyed                   |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/epg-1b-307-hln.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/epg-1b-307-hln.html)

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# Technical details

## Electrical Configuration

|                                 |                            |
|---------------------------------|----------------------------|
| Number of contacts Low Voltage  | 7                          |
| Contact Termination Low voltage | PCB - Straight             |
| R (max)                         | 6.1 mOhm                   |
| Insert configuration value      | 1B.307/EPG - 7 Low Voltage |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)  |
| Rated current                   | 2 A                        |
| Vtest (contact-contact)         | 1.4 kV (DC)                |
| Vtest (contact-shell)           | 1.5 kV (DC)                |
| Contact Dia.                    | 0.7 mm (0.028in)           |
| Gender                          | Standard                   |

## Form & Material

|                        |  |
|------------------------|--|
| Shell style / Model id | EP - Elbow receptacle for printed circuit (solder or screw fixing)             |
| Socket / Receptacle    | Elbow  |
| Housing material       | PPS (Polyphenylene) shell, other pieces nickel plated [SAE AMS QQ N 290] brass |
| Locking system         | Push-pull  |
| Keying                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)           |
| Weight                 | 12.2 g   |

## Environment

|                                   |  |
|-----------------------------------|--|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV |
| Environmental sealing (IP rating) | IP50   |
| Endurance                         | 5000 mating cycles   |
| Temperature range                 | -55°C / +250°C (max. temperature valid for short periods of use.)  |
| Climatic Category                 | 55/175/21  |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]   |
| Shielding (min)                   | 75 dB (10 MHz)   |
| Shielding (min)                   | 40 dB (1 GHz)  |
| Shock Resistance                  | 100 g [ 6 ms]  |
| Vibration                         | 15 g [10 Hz - 2000 Hz]   |
| Salt Spray Corrosion              | >144 hr  |

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# Recommended By Lemo

## Accessories

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Compatible cap

[BRE.1S.200.NAS](#)

## CAD

### Documents

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PCB

[Download](#)

PCB Eagle

[Download](#)

Kicad

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PCB Altium

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