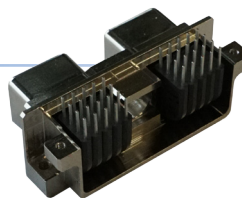


Module design allowing automatic assembly on the card
Shortened contact design for a space saving on the card



Aeronautics
Defence

MODULES AND CONTACTS

MODULES

Amphenol Air LB has extended its range of EN4165 modules creating the SIM OPLF module, innovative and performing alternative to the standard modules fitted with angled PCB.

Its technology consists of contact strips encapsulated each in an over-molded LCP composite shell and then assembled in SIM OPLF module body in EN4165 format.

The LCP overmolding (Liquid Crystals Polymers):

- Ensures the **insulation between contacts**
- Enables an **automatic assembly** thanks to an integral assembly (fixed contacts) -> **Quick install**

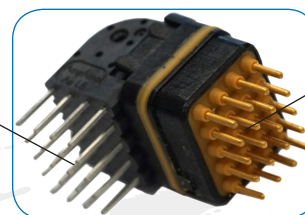
Amphenol Air LB can provide, on request, the suitable packaging for an automatic integration.

Removable SIM OPLF module from the connector body for an **easier possible maintenance**.

SIM OPLF modules with a **compact design**:

- Allows reduced size of PCB
- Allows space saving for other components

PCB connection part



Active part

Active part: golden 0,76 µm Gold on Nickel
PCB connection part: tinned

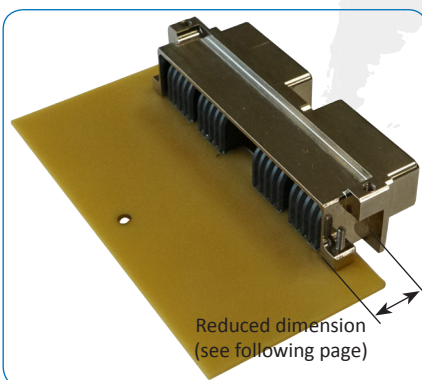
CONTACTS

Pin contacts in copper alloy.

Contacts size: #22

Active part compatible with EN3155 and SAE39029 socket contacts.

SHORTENED RECEPTACLES



Reduced dimension
(see following page)

Amphenol Air LB has developed shortened SIM specific receptacles for SIM OPLF modules, thus optimizing the overall size on the PCB.

QUALIFICATIONS

These receptacles, developed according to EN4165 standard, are compatible with all SIM/EN4165 plugs fitted with #22 socket modules.

Reach compliance of connectors and modules.

RoHS compliance of nickel plated metallic / composite receptacles.

TECHNICAL DATA

The technical data of shortened receptacles are the same as the SIM/EN4165 standard receptacles (see the catalogue "SIM Connectors").

The OPLF modules are resistant to the VIGON cleaner diluted to 30%.

Reduced PCB size -> **SPACE SAVING**

Optimized associated weight -> **WEIGHT SAVING**

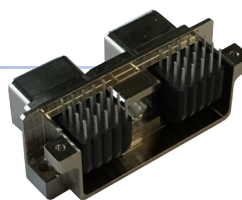
Mounting automation -> **TIME SAVING**

COST SAVING

SIM OPLF MODULES



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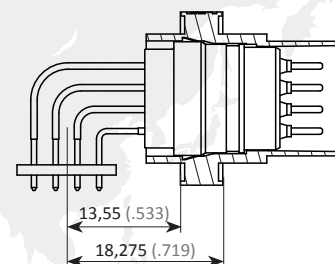
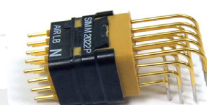
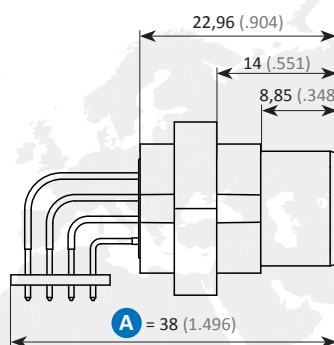
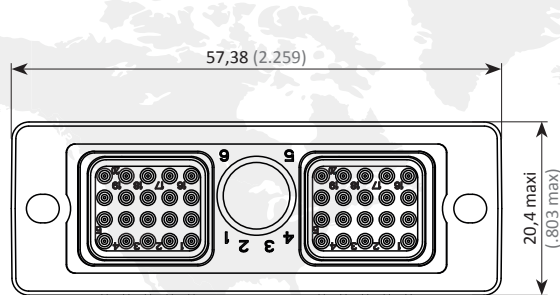
TECHNICAL DRAWINGS

The SIM OPLF module design optimizes space saving on PCB.

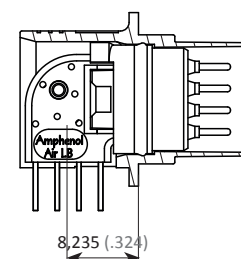
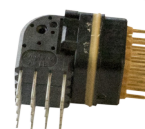
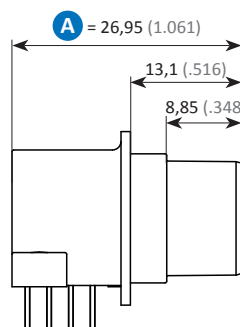
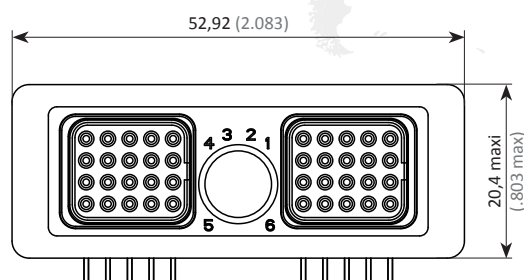
The dimension **A** decreases from 38 mm (1.496 inch) to 26,95 mm (1.061 inch) -> gain of 11 mm (.433 inch).

Dimensional comparison between standard and OPLF modules:

■ STANDARD SIM MODULE WITH ANGLED PCB CONTACTS



■ SIM OPLF MODULE



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