



10149 Series is a 3.5mm pitch, 30A floating board-to-board connector developed for connecting power circuits in space-constrained systems where high current capacity and mechanical tolerance are required. Its floating structure helps absorb board misalignment, supporting stable electrical performance and reliable assembly.

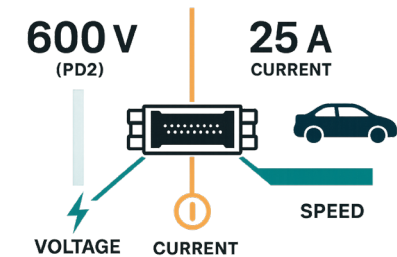
【Target Applications】

ADAS (Sensing Device), Powertrain, Infotainment (Cockpit), Consumer Product (Household/Commercial), DCE, Industrial Equipment, and Robot.

High Speed + High Current

This series is able to handle up to 600 volts (*PD2) and 25 amps of current.

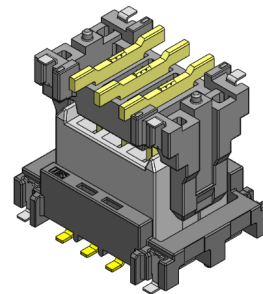
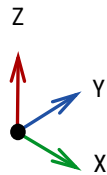
Our customers have successfully used this connector for DC-DC converters in hybrid vehicles.



Proven in hybrid DC-DC converters

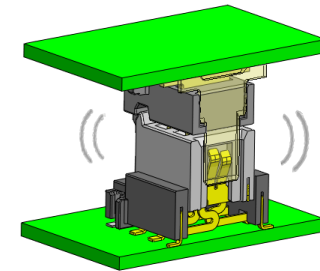
Floating Structure

With a floating range of $XY \pm 1.0\text{mm}$ and $Z \pm 1.0\text{mm}$, this function mitigates the stress on the soldering joint while in the assembly process reducing product waste while saving our customers money.



Power 4-Point Contact

This design delivers stable, low-resistance power transmission by maintaining four independent contact points per terminal. This structure enhances reliability under vibration and shock, making it well suited for power delivery in compact, high-performance automotive and industrial applications.



IMSA-10149B-XXYXXX / IMSA-10149S-XXYXXX

Product Spec

Item	Unit	Specification
Pitch	mm	3.5
Floating	mm	XY:±1.0 Z:±1.0
Mating height	mm	20.5 ~ 30.5 (+/- 1.0 mm)
Pin Counts	ckt	1 ~ 8
Connecting Type	-	Stacking
Operating Temperature Range	°C	-40~+125
Rated Current	A	30A/pin
Rated Voltage	V	290 (600 PD2)
Contact Resistance	mΩ	3.5
Withstand Voltage	V	500
Durability (Insertion/Withdrawal)	times	10

* For packaging info, please refer to our packaging drawing.

* Contents are subject to change without prior notice, due to our quest for improving product performance. Dimensions and specifications described herein are limited to major items. For more details on how to use this connector, please request a drawing and specification sheet. *Specifications may be subject to changes without prior notice, due to our quest for improving product performance.

* 掲載している内容・仕様・数値は、概略のものであり、予告無しに変更されることがあります。

* ご使用の際は、最新の図面・仕様書をお取り寄せ頂き、正しくご使用下さい。ご不明な点などございましたら、弊社営業担当にご相談ください。

* 製品の梱包については図面をご確認ください

Plug

Parts	Material	Plating
Housing	PA9T	-
Retainer	-	-
Contact	Copper alloy	Ni, Tin
Metal Flange	Copper alloy	Ni, Tin

Socket

Component	Material	Plating
Housing	PA9T	-
Retainer	PA9T	-
Contact	Copper alloy	Ni Tin matte
Metal Flange	-	-