AP-10

High-power supply terminal, high heat resistance board-to-board connection. Contribute to miniaturization of power electronics devices, height differences can be customized.

Product Specifications:

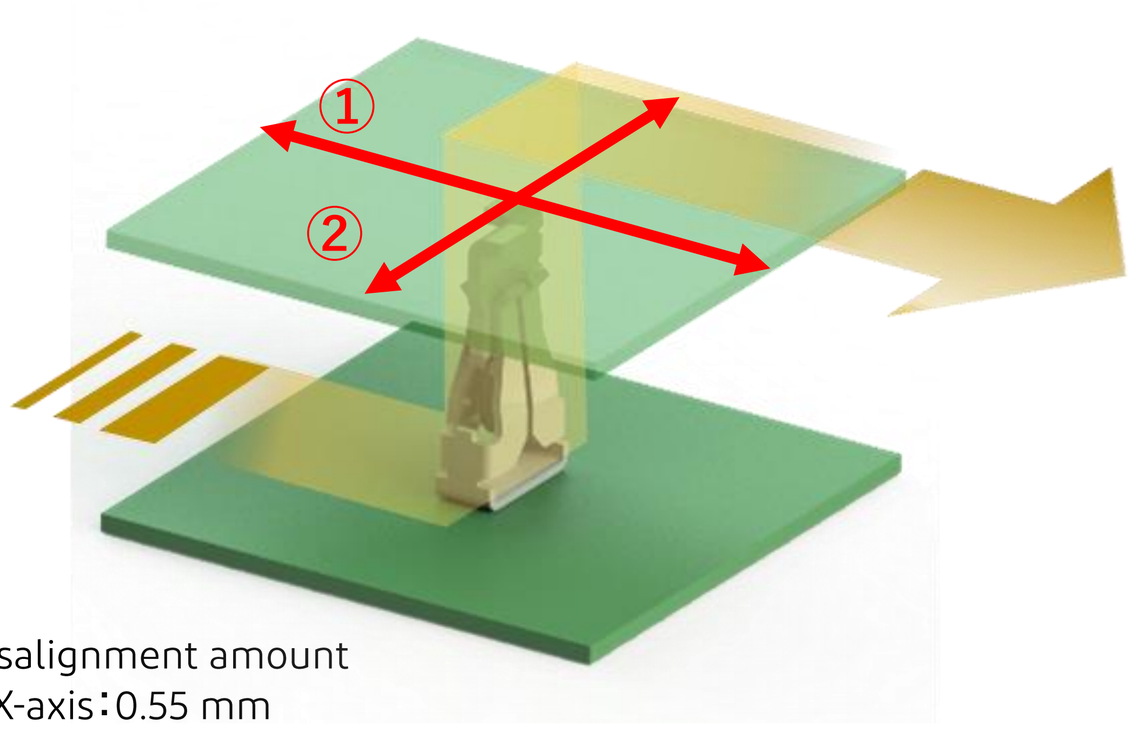
Mating type		Vertical
Wiping Length (mm)		2.55 (Plug: 7.5)
		4.80 (Plug 14.5)
Size (mm)	Height (mm)	13.6 ~ 16.1 (Plug: 7.5)
		16.1 ~ 23.1 (Plug: 14.5)
	Width (mm)	7.6 (Rece)
		3.4 (Plug: 7.5)
		5.2 (Plug: 14.5)
	Depth	3.4 +/- 0.2 (Rece)
		6.0 +/- 0.1 (Plug: 7.5)
		7.6 +/- 0.1 (Plug: 14.5)

Product Specifications:

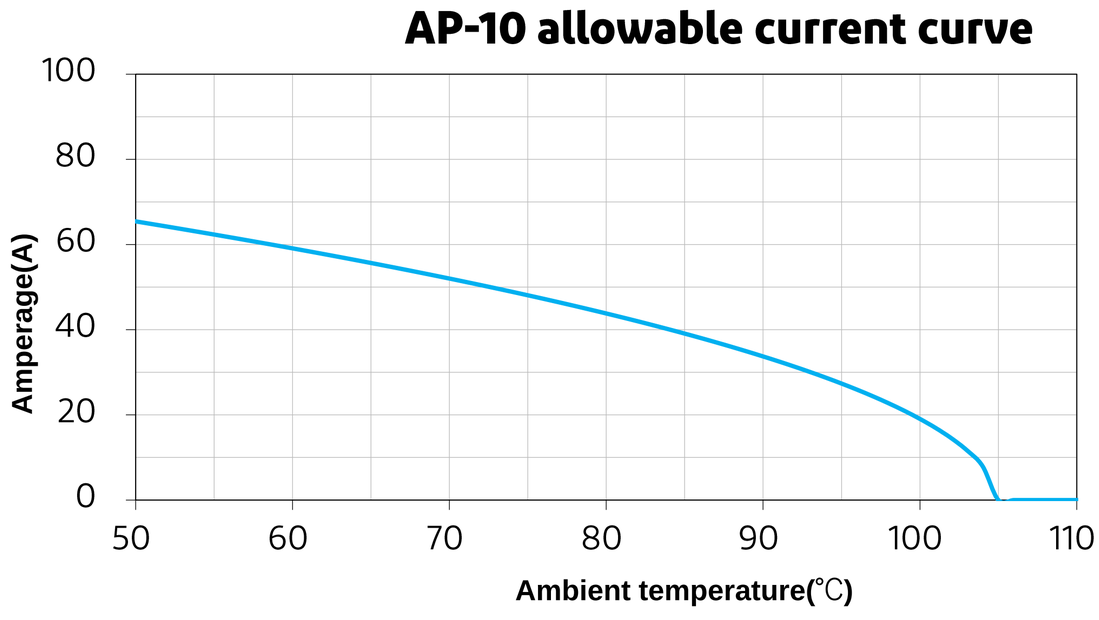
Operating Temperature	-40 - 105℃
Mating force	15N Max.
Contact resistance	1.0 mΩ Max.

* Please inquire for pin counts not listed or outside of the pin count range.

High current and temperature resistance, board-to-board power supply terminal



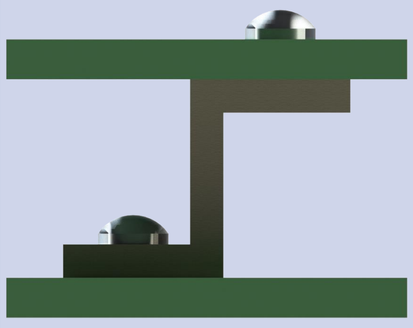
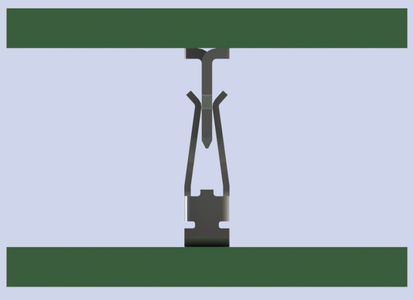
Misalignment amount
①X-axis：0.55 mm
②Y-axis：0.70 mm

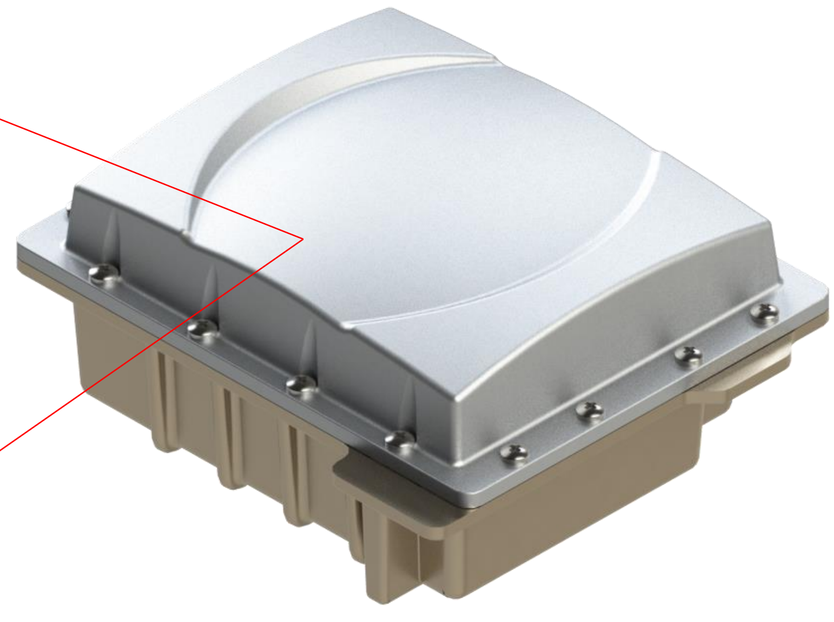


*The above results are actual measurement results under the test conditions specified by I-PEX.
*The results depend on the operating environment, so please contact us for details.

Contribute space-saving design on PCB achieved by miniaturization of connector

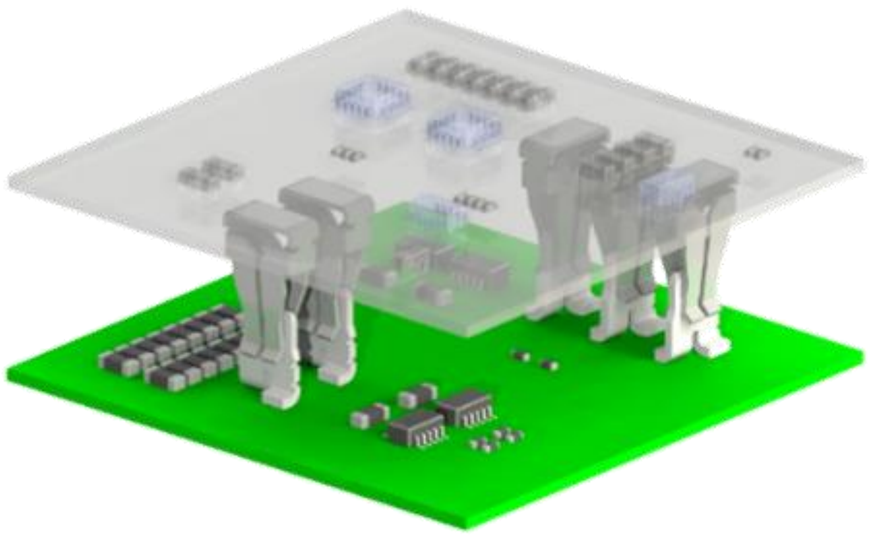
Comparison with traditional connect methods

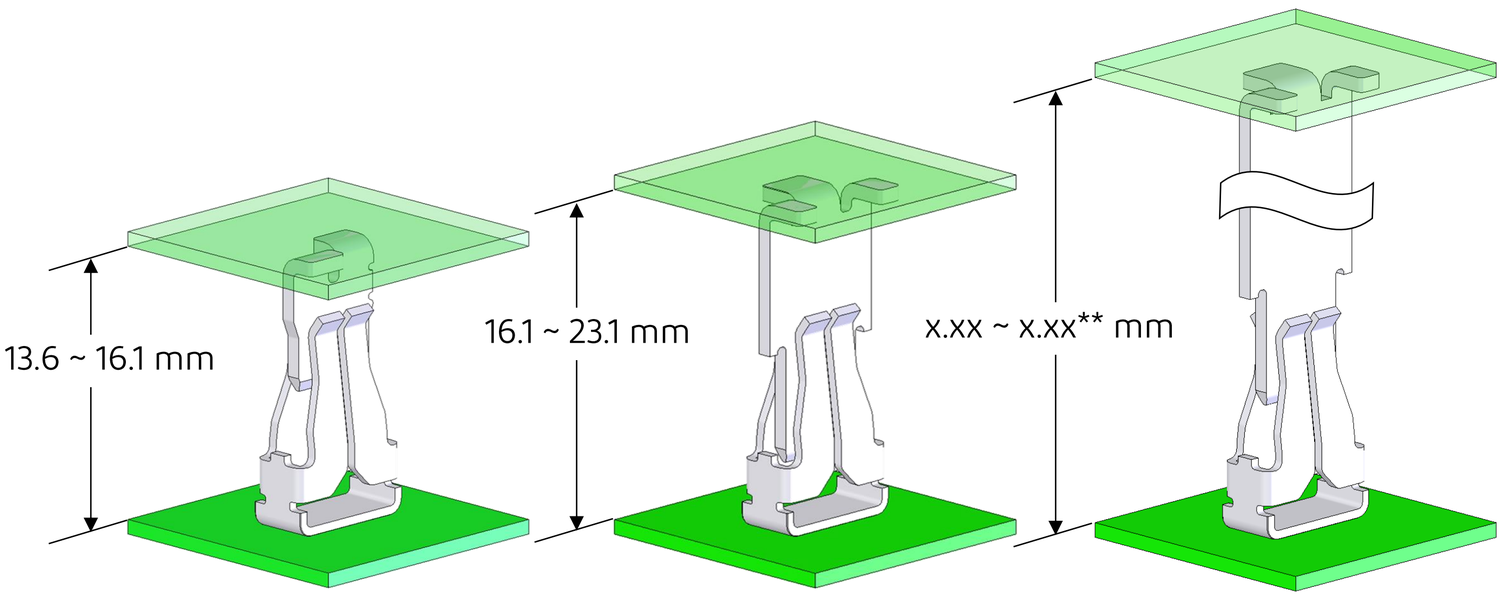
Category	Bus bar	BtoB connector
Drawing		
Size wise	X	O
Tact wise	△	O



Suitable for power electronics devices such as DC-DC converter or Inverter

Flexible board to board spacing



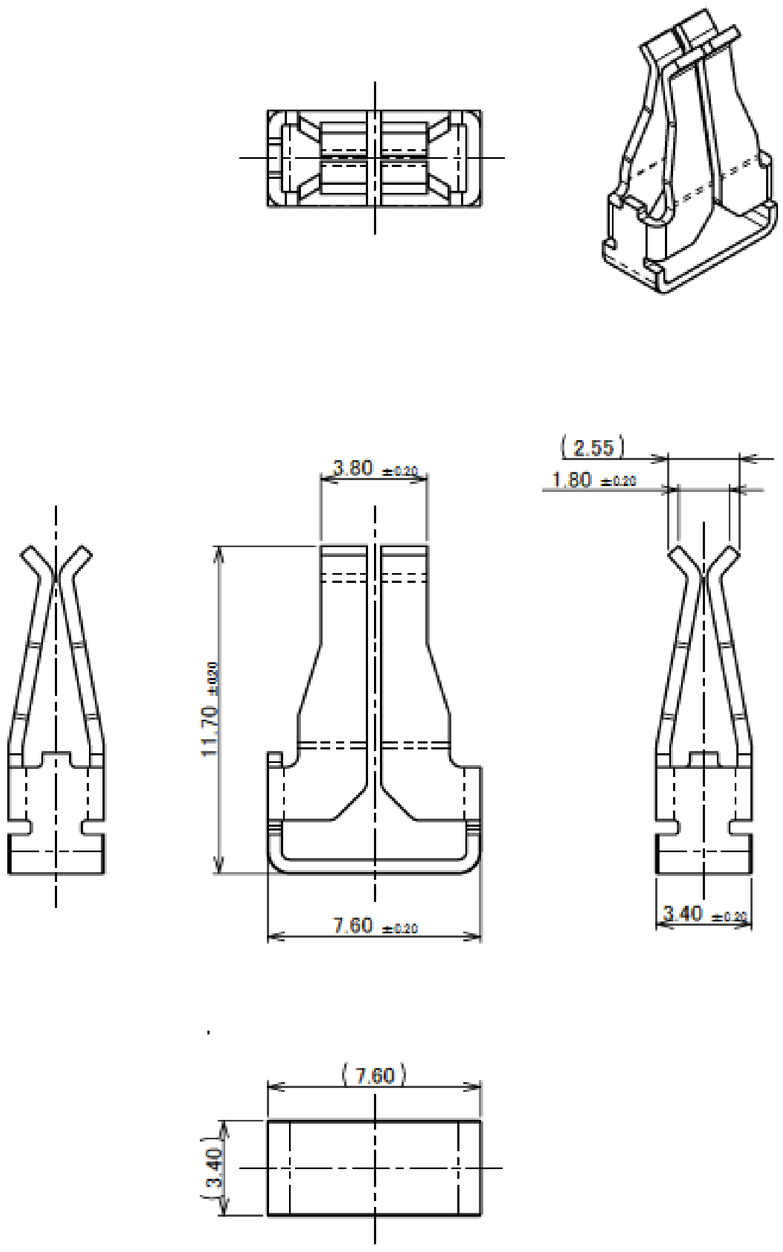


I-PEX offers AP-10 in multiple heights.

Component Parts Details

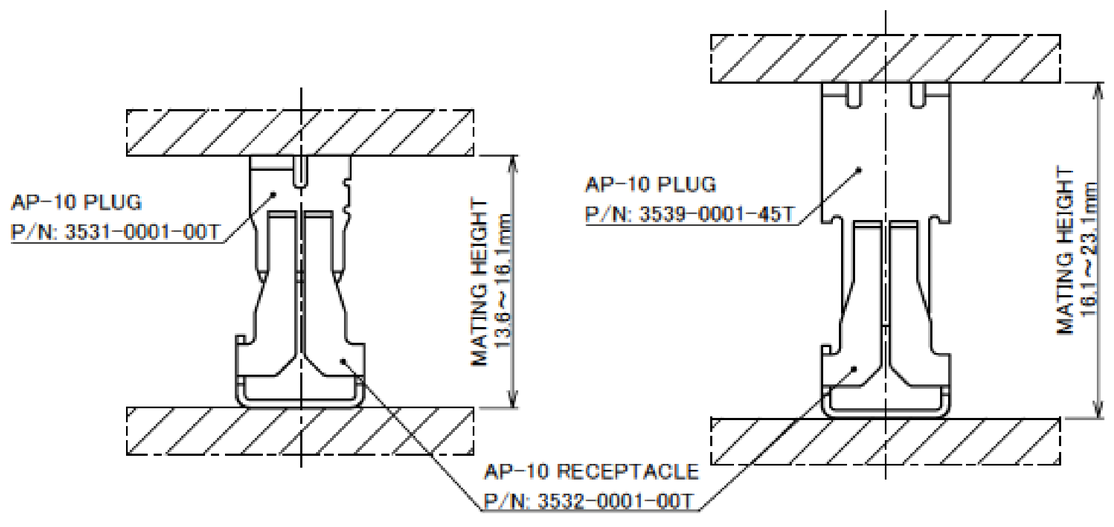
AP Series Receptacle

Recommended P/N	3532-0001-00T
PART NO.	
3532-0001-00T	



HF RoHS

IATF 16949 Cetified [Planned]



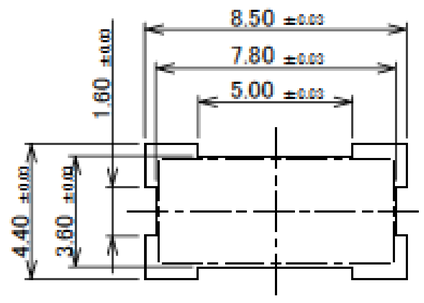
NOTES.
1. APPLICABLE CONNECTOR
AP-10 PLUG H=7.5 mm (P/N: 3531-0001-00T)
AP-10 PLUG H=14.5 mm (P/N: 3539-0001-45T)

NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
1	RECEPTACLE	COPPER ALLOY	Sn 1.00~4.50 μm OVER Ni 1.00~4.50 μm

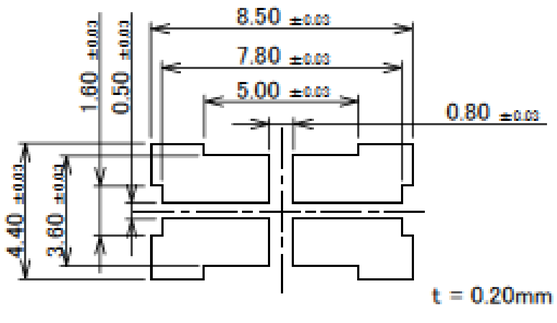
Rev.5

AP Series Receptacle

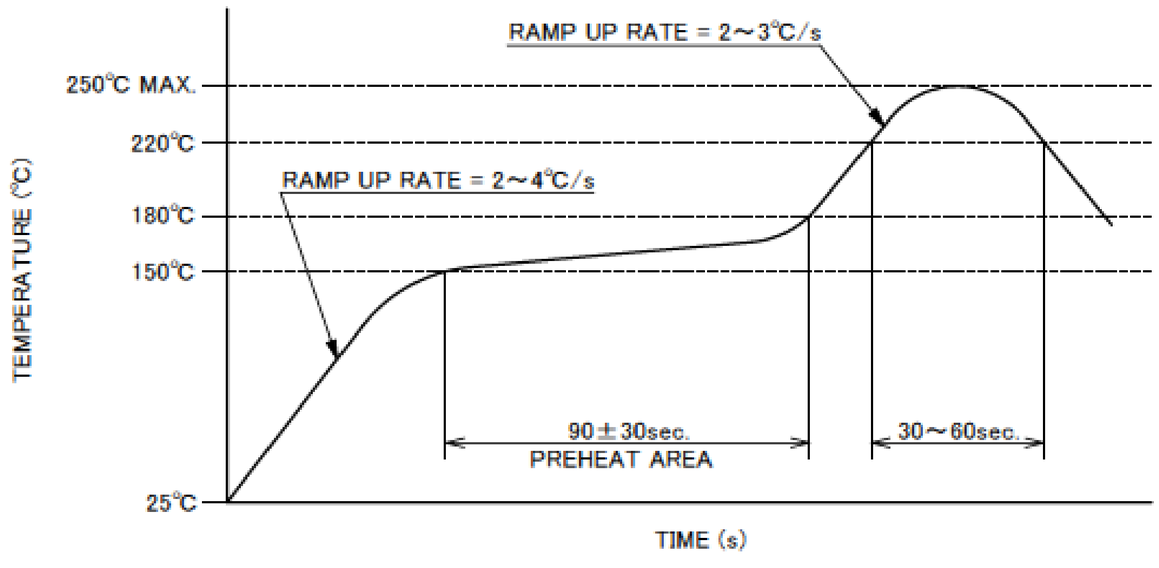
PART NO.
3532-0001-00T



RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED METAL MASK



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3531-0001-00T 3539-0001-45T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	⊿15.0℃ Max.
COMPONENT TEMPERATURE(ENERGIZATION)	233～378K(-40℃～+105℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 1.0 mohm MAX. / AFTER TEST : 1.0 mohm MAX.
DURABILITY	3 CYCLES
MATING FORCE	15.0 N MAX.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2616
TEST REPORT	TR-19063
PACKING STANDARD	PST-17121
APPEARANCE CRITERIA No.	QLS-A***

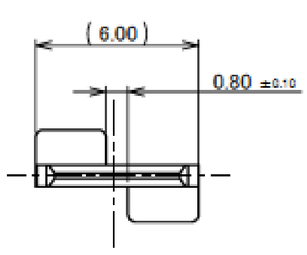
Rev.5

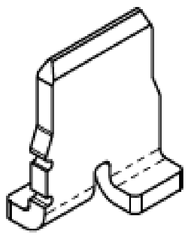
AP Series Plug

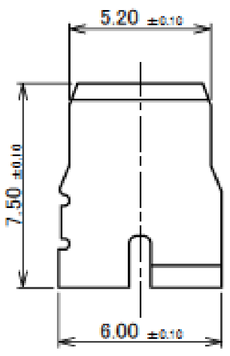
Recommended P/N	3531-0001-00T

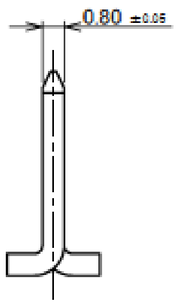
PART NO.
3531-0001-00T

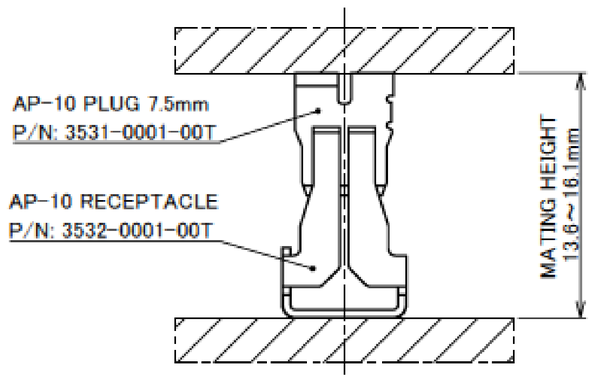
IATF 16949 Cetified [Planned]



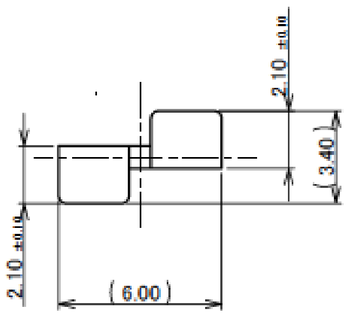








MATING CONDITION

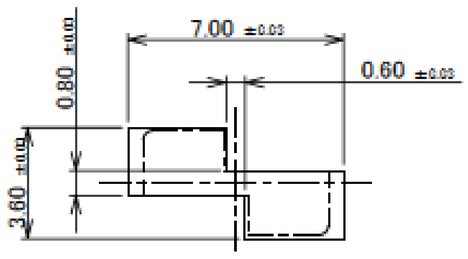


NOTES.
1. APPLICABLE CONNECTOR
AP-10 RECEPTACLE (P/N: 3532-0001-00T)

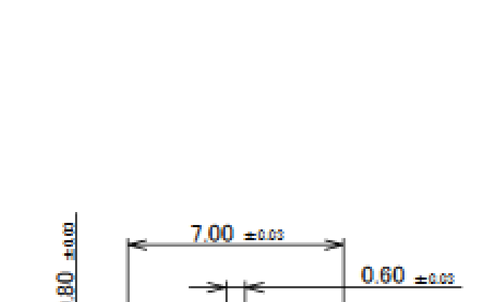
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
1	PLUG	BRASS	Sn 1.00μm～4.50μm OVER Ni 1.00μm～4.50μm

Rev.5

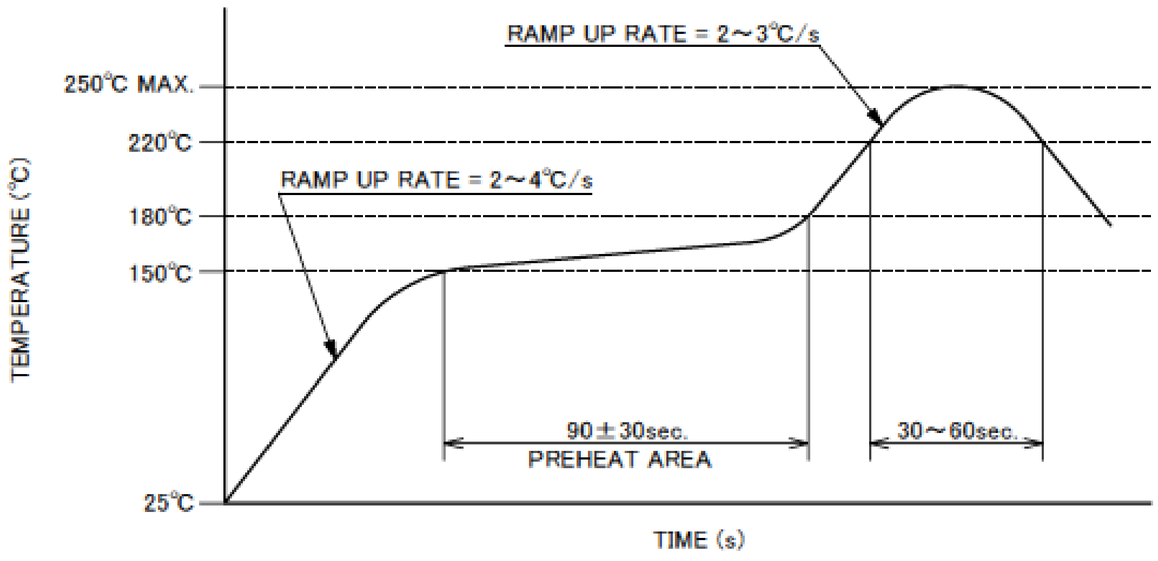
PART NO.
3531-0001-00T



RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED METAL MASK



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.5

AP Series Plug

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	⊿15.0℃ MAX.
COMPONENT TEMPERATURE(ENERGIZATION)	233～378K(-40℃～+105℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 1.0 mohm MAX. / AFTER TEST : 1.0 mohm MAX.
DURABILITY	3 CYCLES
MATING FORCE/UNMATING FORCE	15.0 N MAX./15.0 N MAX.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2616
TEST REPORT	TR-19063
PACKING STANDARD	PST-17120
APPEARANCE CRITERIA No.	QLS-A***

Rev.5

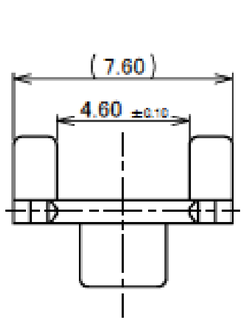
Recommended P/N	3539-0001-45T

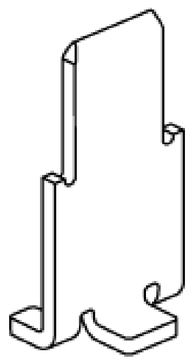
PART NO.	PACKING
3539-0001-45T	TRAY
3539-0001-45E	EMBOSS

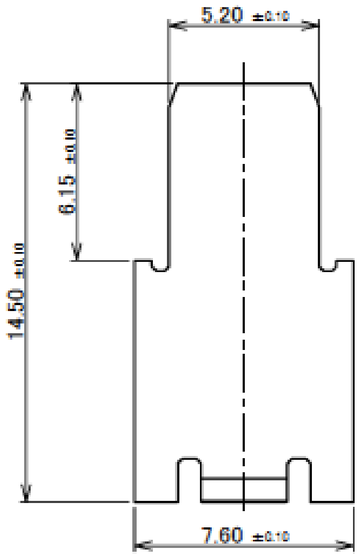
Halogen Free

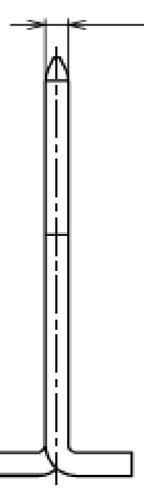
RoHS Compliant

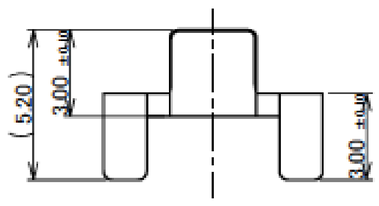
IATF 16949 Cetified [Planned]

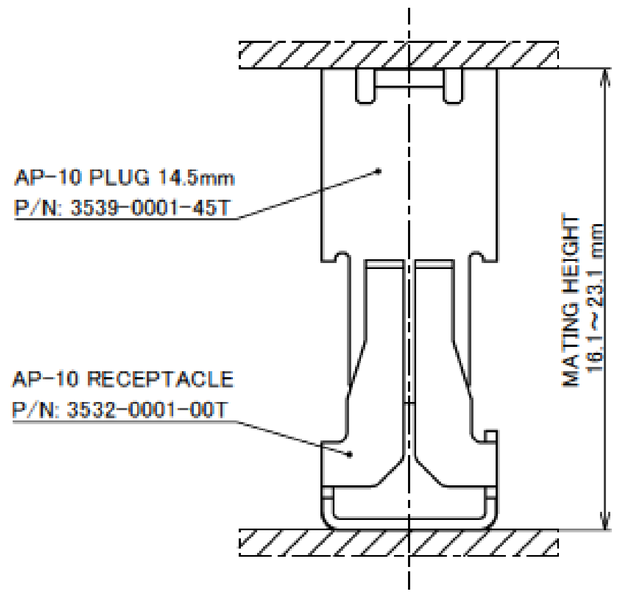












MATING CONDITION

NOTES.

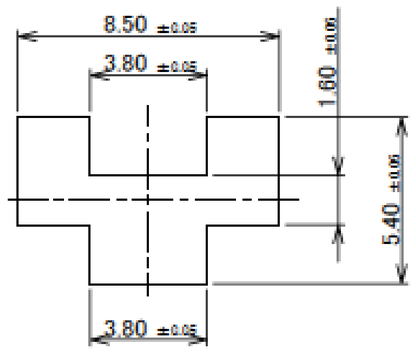
1. APPLICABLE CONNECTOR
   AP-10 RECEPTACLE (P/N: 3532-0001-00T)

NO.	DESCRIPTION	MATERIAL	REMARKS, FINISH
1	PLUG	BRASS	Sn 1.00～4.50 μm OVER Ni 1.00～4.50 μm

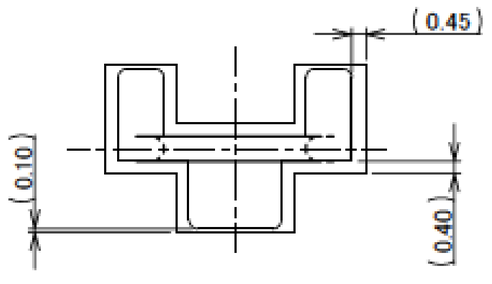
Rev.3

AP Series Plug

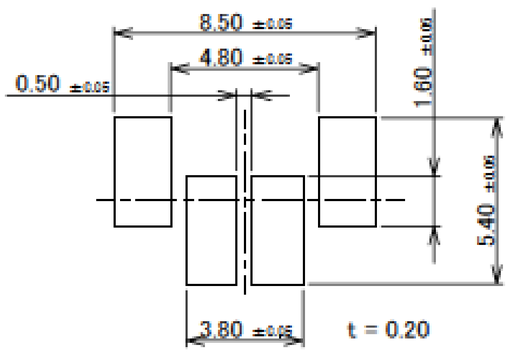
PART NO.	PACKING
3539-0001-45T	TRAY
3539-0001-45E	EMBOSS



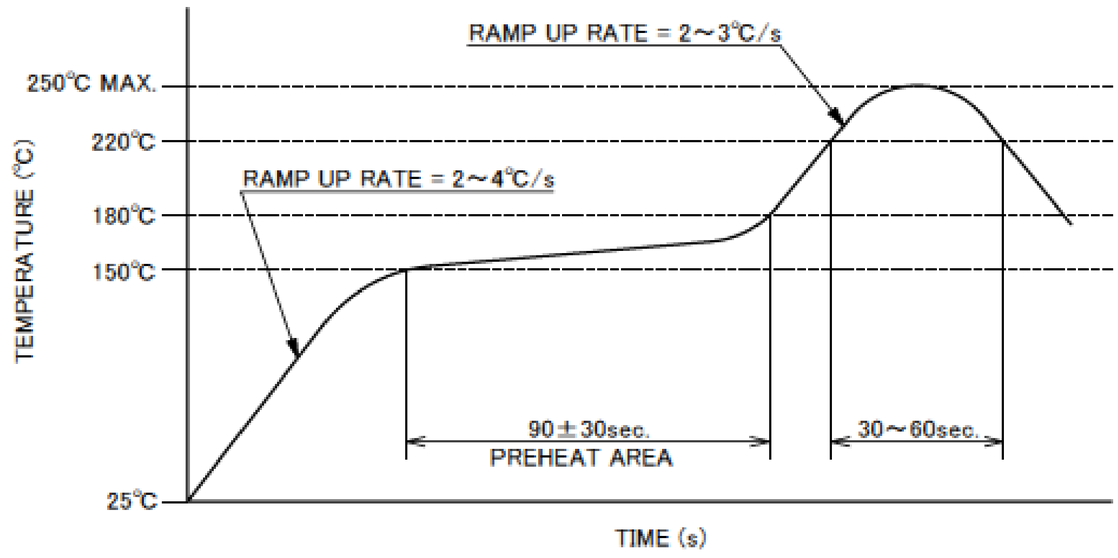
RECOMMENDED PATTERN LAYOUT



CONNECTOR ON RECOMMENDED PATTERN



RECOMMENDED METAL MASK LAYOUT



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

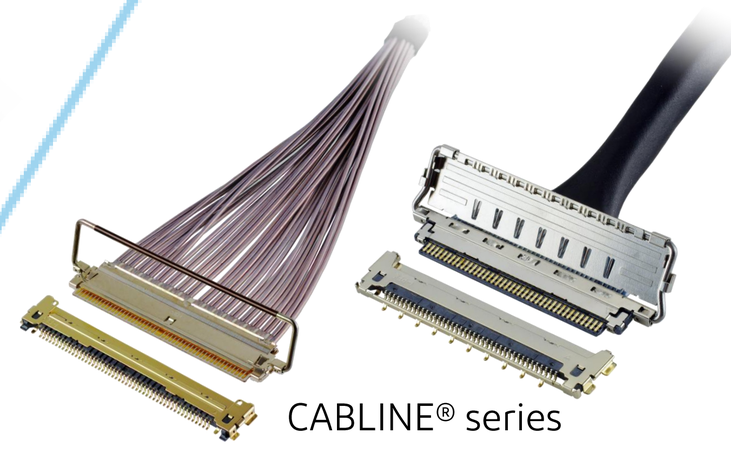
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	⊿15.0℃ MAX
COMPONENT TEMPERATURE (ENERGIZATION)	233～378K(-40℃～105℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 1.0 mohm MAX. / AFTER TEST : 1.0 mohm MAX.
DURABILITY	3 CYCLES
MATING FORCE/UNMATING FORCE	15.0 N MAX./15.0 N MAX.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2616
TEST REPORT	TR-19063
PACKING STANDARD	PST-22010(TRAY) PST-23067(EMBOSS)
APPEARANCE CRITERIA No.	QLS-A***

Custom Connectors Available

RF Connectors

MHF® series

Micro-coaxial/Twinax Connectors



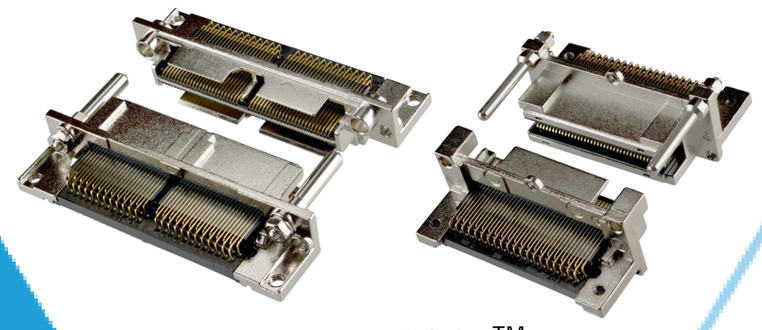
CABLINE® series

Wire-to-Board Connectors/ Terminals

AP series

ISH® series

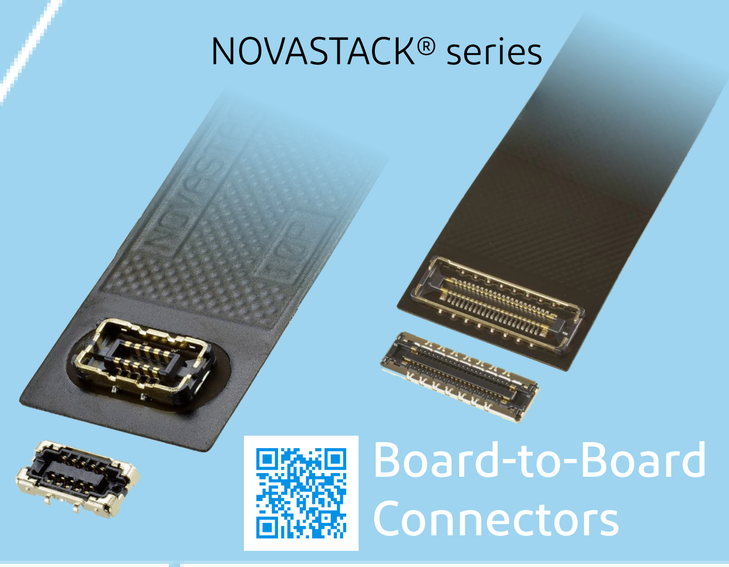
I/O Connectors



MINIDOCK™ series

Board-to-Board Connectors

NOVASTACK® series



FPC/FFC Connectors

MINIFLEX® series

EVAFLEX® series

Inquiry

Contact your sales representative or more detailed information.

www.i-pex.com

I-PEX