## **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.

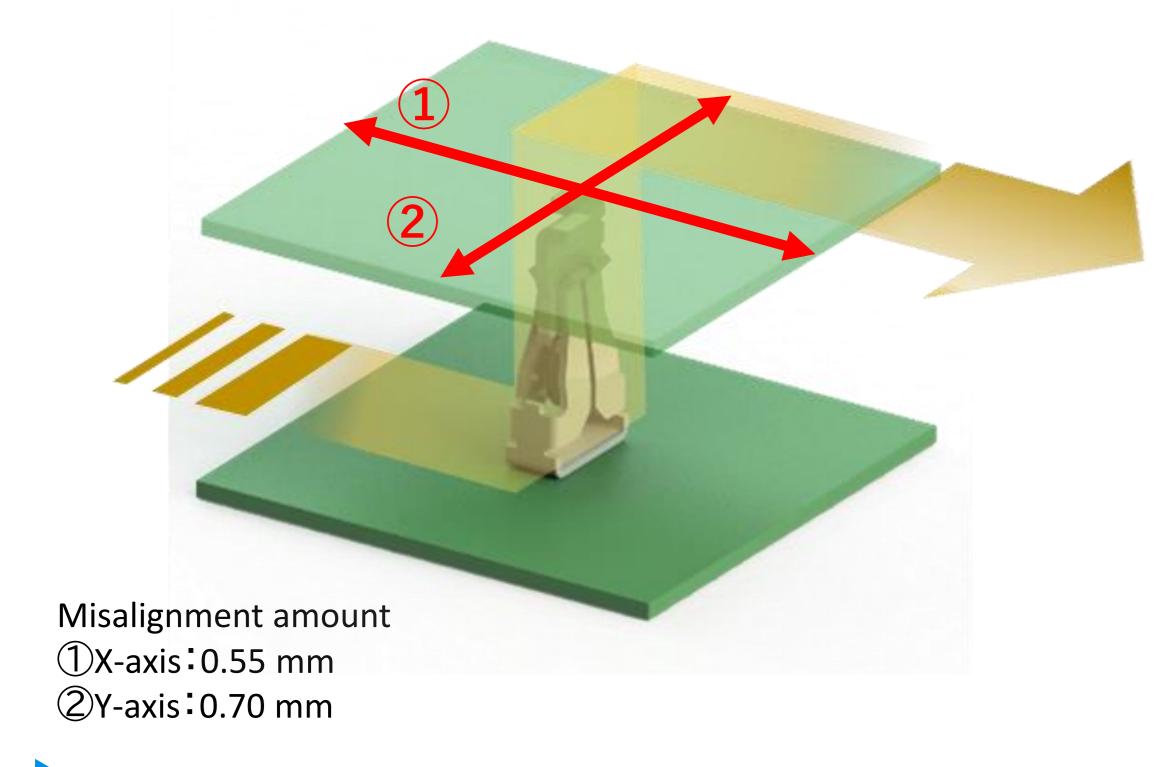
**Product Specifications:** 

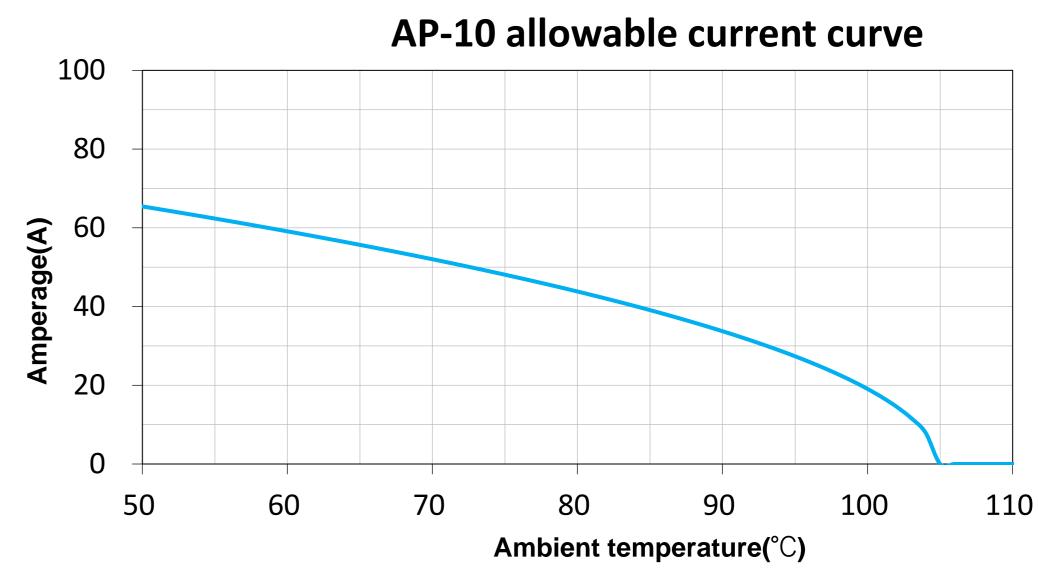
	Mating type		Vertical
	Wiping Length (mm)		2.55 (Plug: 7.5)
			4.80 (Plug 14.5)
		Height (mm)	13.6 ~ 16.1 (Plug: 7.5)
			16.1 ~ 23.1 (Plug: 14.5)
	Size (mm)	Width (mm)	7.6 (Rece)
			3.4 (Plug: 7.5)
3			5.2 (Plug: 14.5)
		Depth	3.4 +/- 0.2 (Rece)
			6.0 +/- 0.1 (Plug: 7.5)
			7.6 +/- 0.1 (Plug: 14.5)
* Please inquire for pin counts not listed or outside of the pin count range.			

Product Specifications:				
-40 - 105°C				
15N Max.				
1.0 mΩ Max.				



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



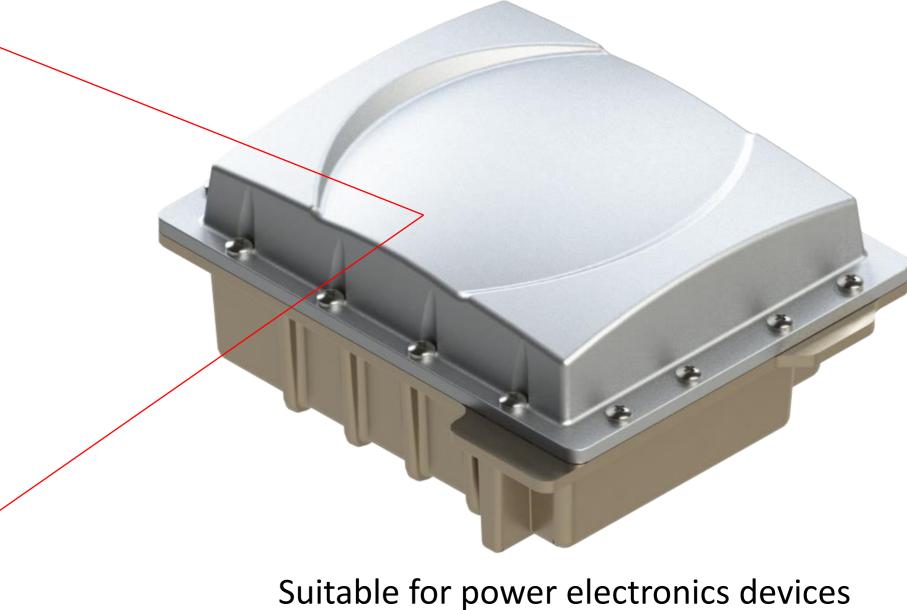


<sup>\*</sup>The above results are actual measurement results under the test conditions specified by I-PEX.

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

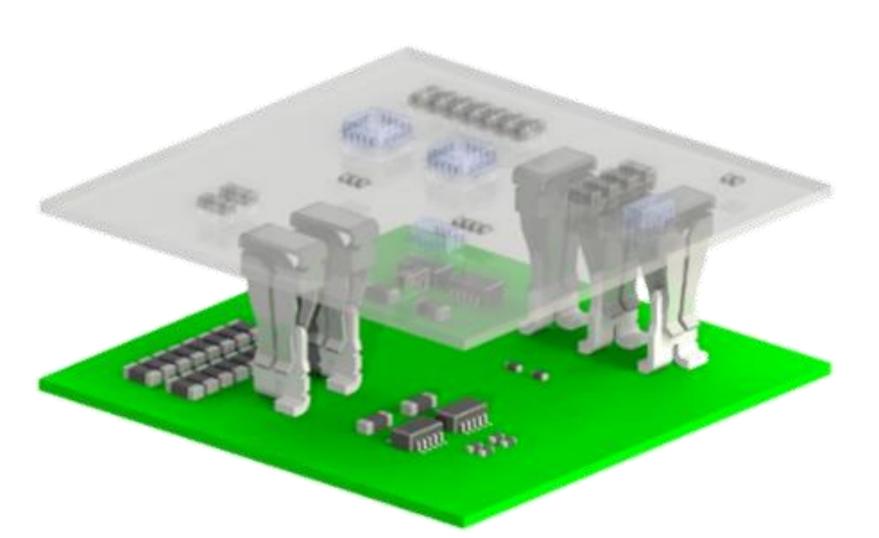
Comparison with traditional connect methods

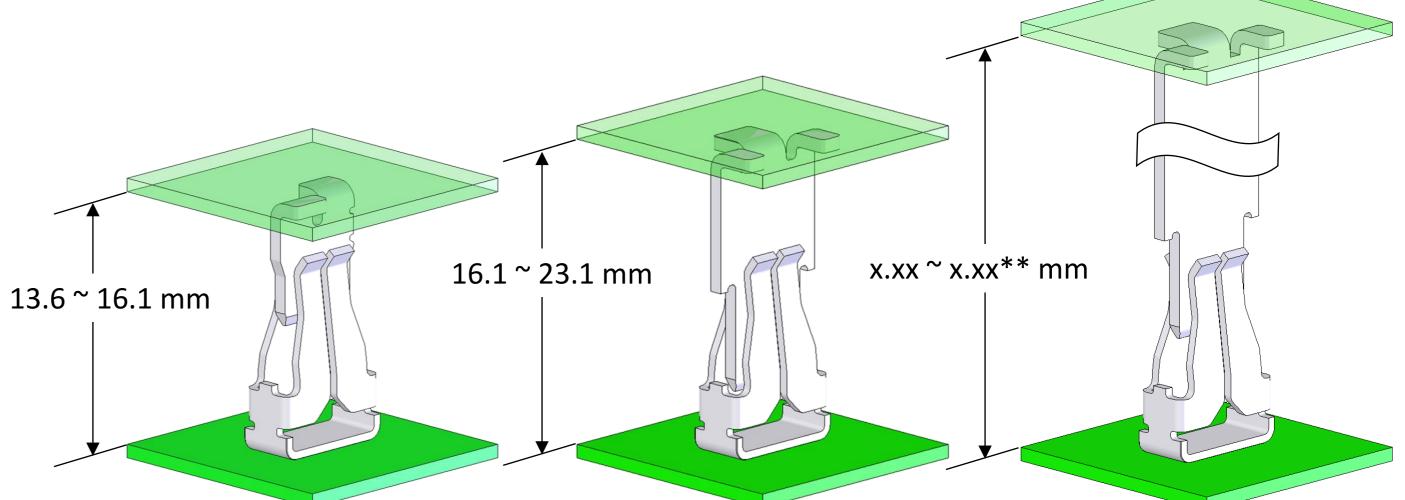
Category	Bus bar	BtoB connector
Drawing		
Size wise	X	0
Tact wise		0



such as DC-DC converter or Inverter

#### Flexible board to board spacing





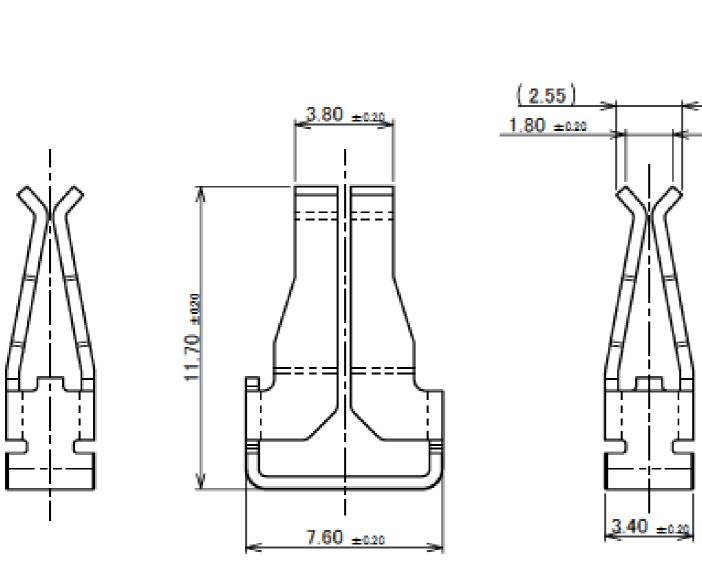
I-PEX offers AP-10 in multiple heights.

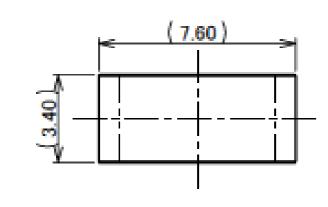


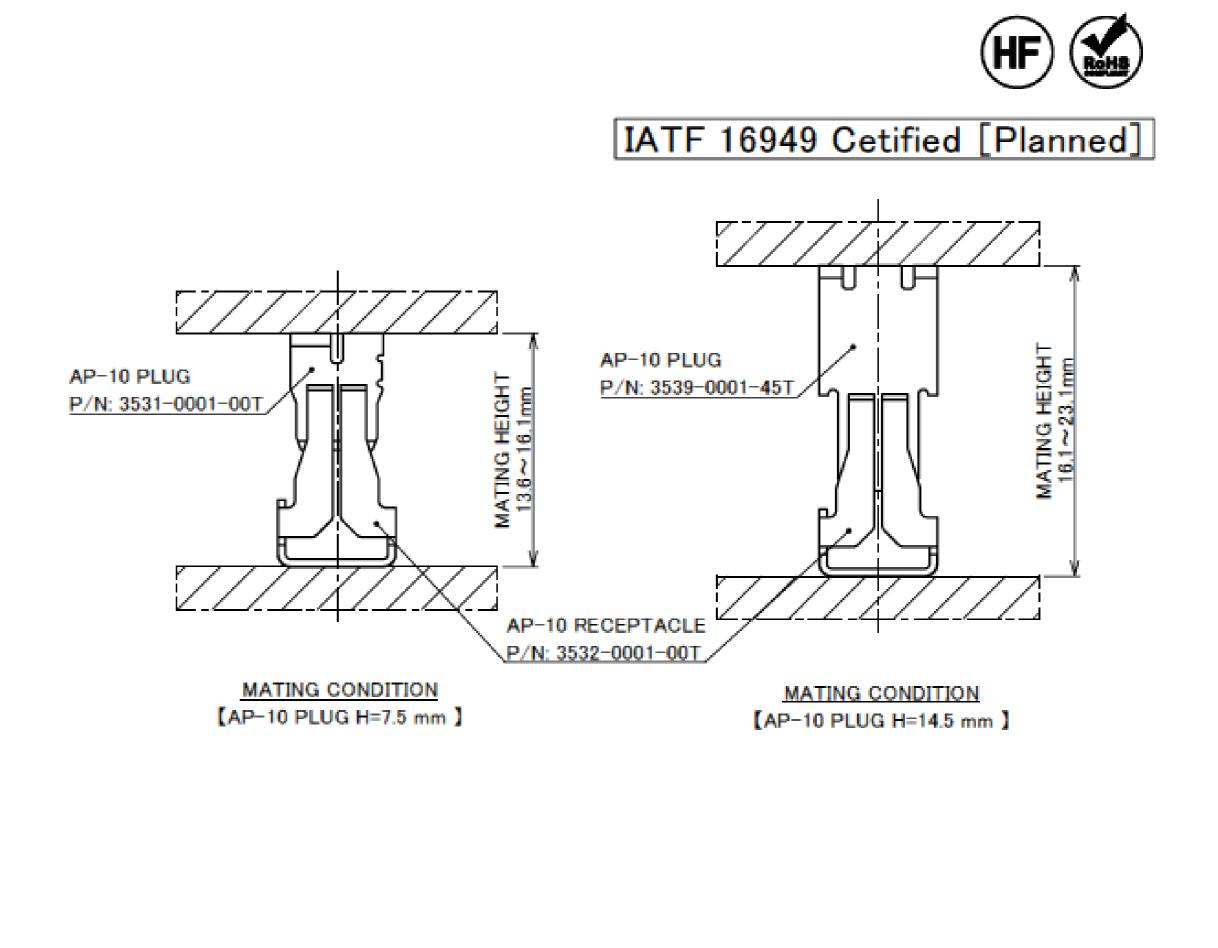
<sup>\*</sup>The results depend on the operating environment, so please contact us for details.

# Component Parts Details

#### **AP Series Receptacle**







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)

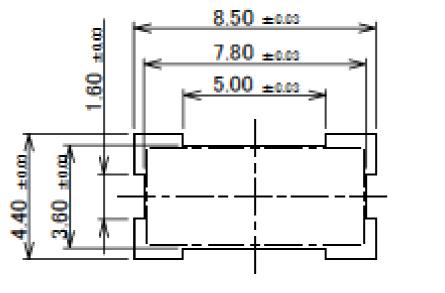
NOTES.

	1	RECEPTACLE	COPPER ALLOY	Sn 1.00~4.50 μ m OVER Ni 1.00~4.50 μ m
	NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
•	-			

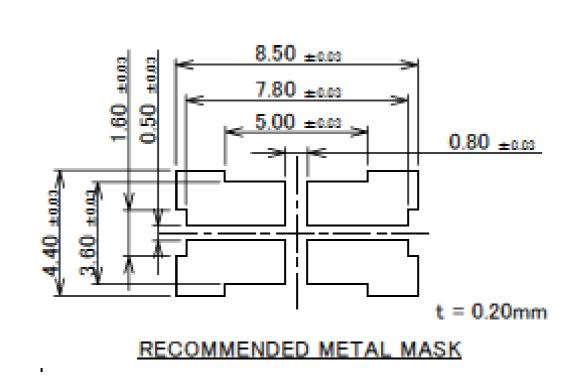


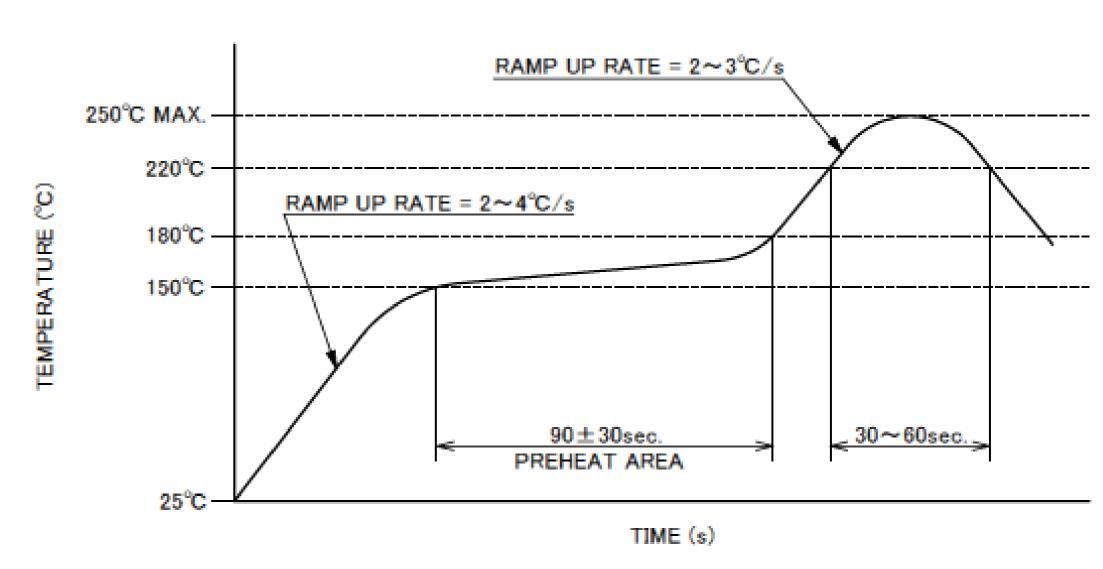
#### **AP Series Receptacle**

PART NO. 3532-0001-00T









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

Rev.5

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3531-0001-00T 3539-0001-45T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	∠15.0°C Max.
COMPONENT TEMPERATURE(ENERGIZATION)	233~378K(-40°C~+105°C)
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***



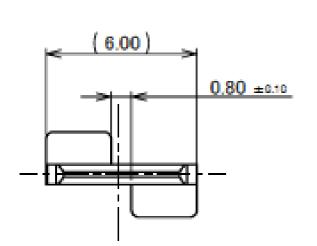
#### **AP Series Plug**

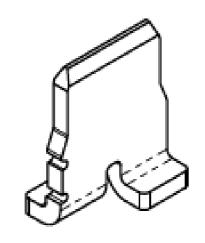
Recommended P/N	3531-0001-00T
PART NO.	
3531-0001-00T	

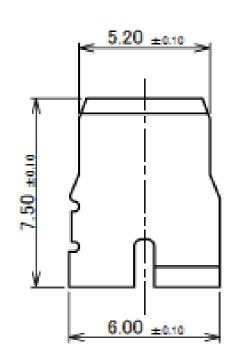


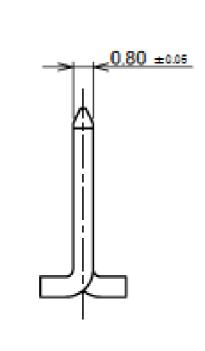


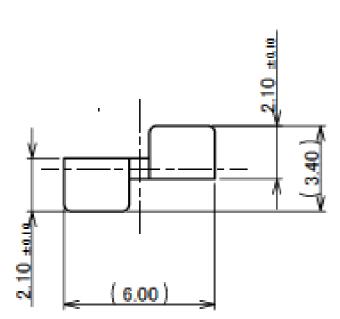
#### IATF 16949 Cetified [Planned]

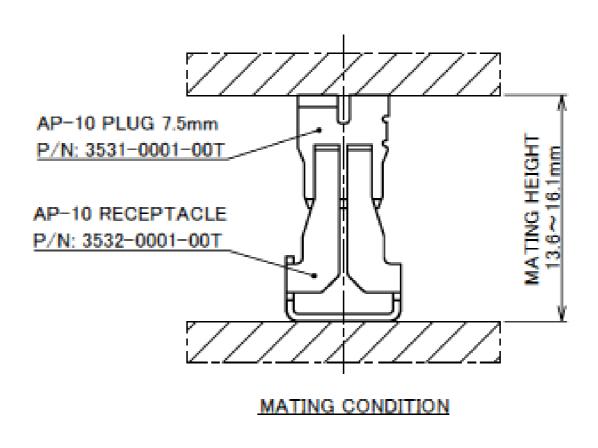












NOTES.

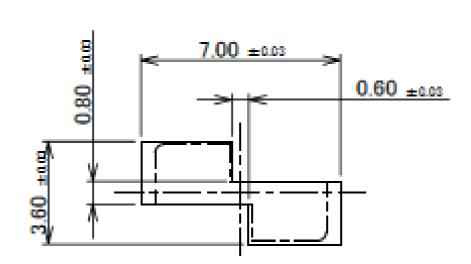
1. APPLICABLE CONNECTOR

AP-10 RECEPTACLE (P/N: 3532-0001-00T)

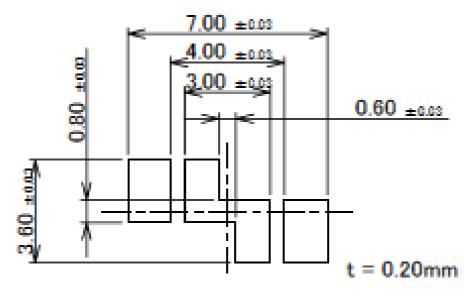
1	PLUG	BRASS	Sn 1.00 μ m~4.50 μ m OVER Ni 1.00 μ m~4.50 μ m
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.5

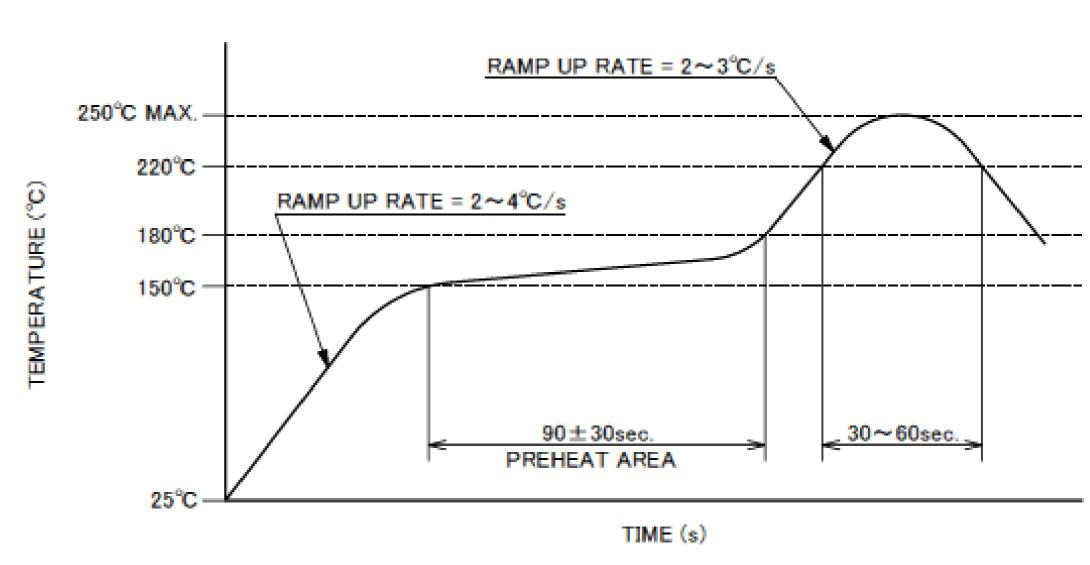
PART NO. 3531-0001-00T



RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED METAL MASK



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



#### **AP Series Plug**

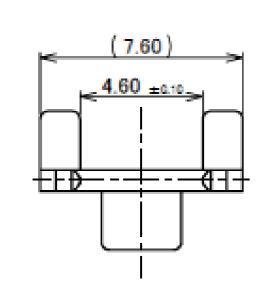
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	∠15.0°C MAX.
COMPONENT TEMPERATURE(ENERGIZATION)	233~378K(-40°C~+105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL: 1.0 mohm MAX. / AFTER TEST: 1.0 mohm MAX.
DURABILITY	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***

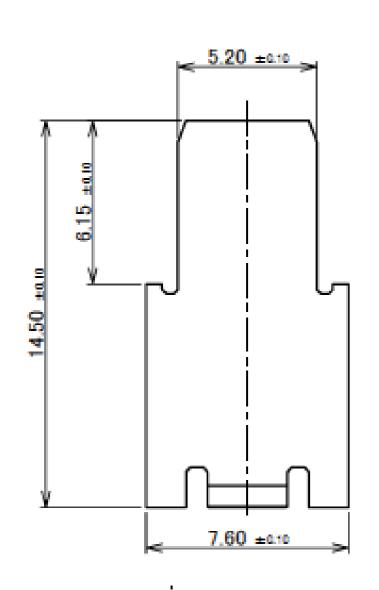
Rev.5

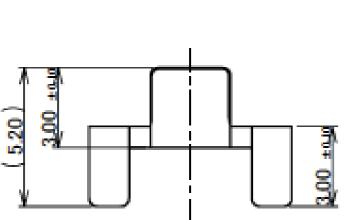
RoHS Compliant

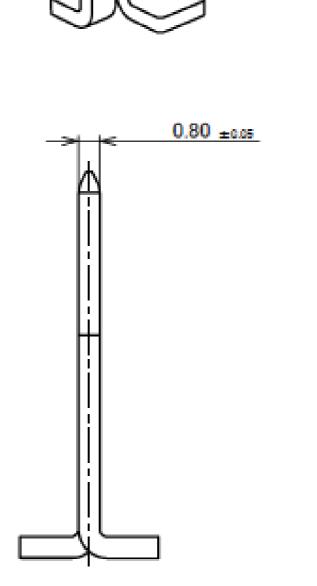
Recommende	d P/N	3539	-0001-45T
PART NO.	PA	CKING	
3539-0001-45T	Т	RAY	
3539-0001-45E	EM	BOSS	

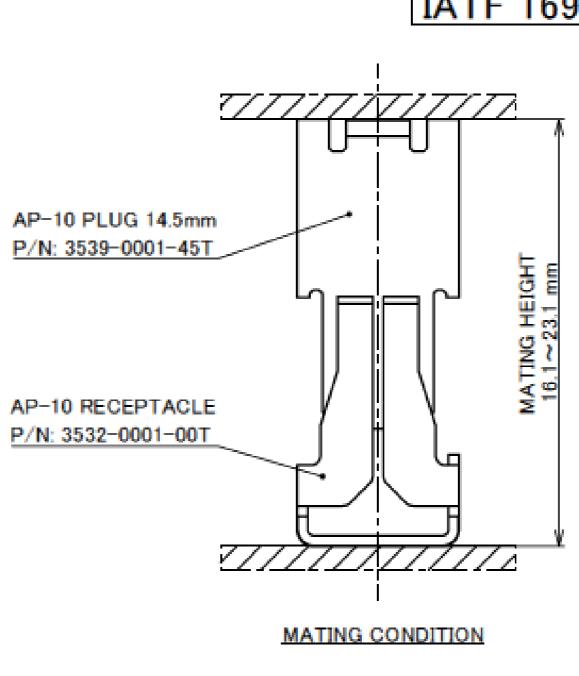








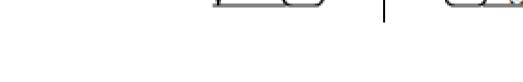




NOTES.

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

1	PLUG	BRASS	Sn 1.00~4.50 μ m OVER Ni 1.00~4.50 μ m
NO	DESCRIPTION	MATERIAL	REMARKS FINISH

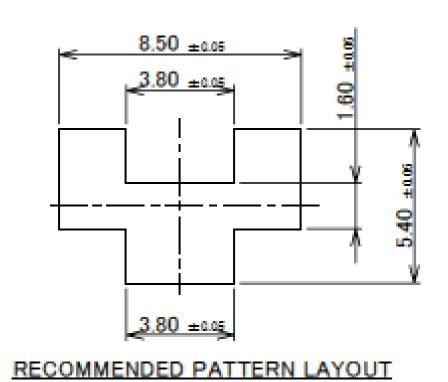


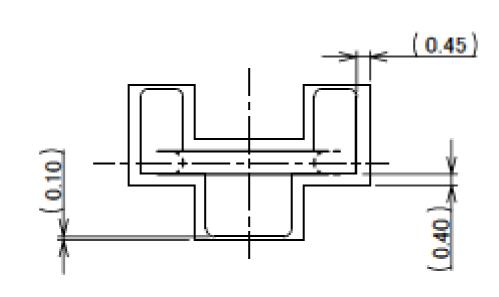
I-PEX

Rev.3

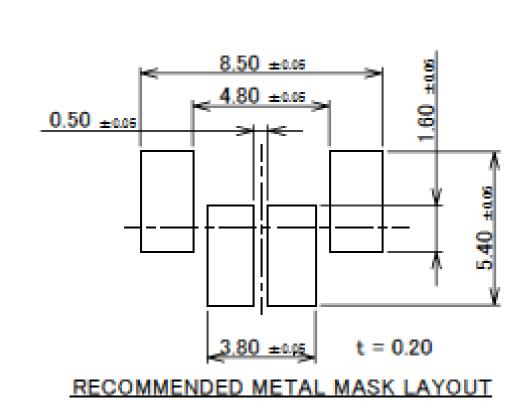
#### **AP Series Plug**

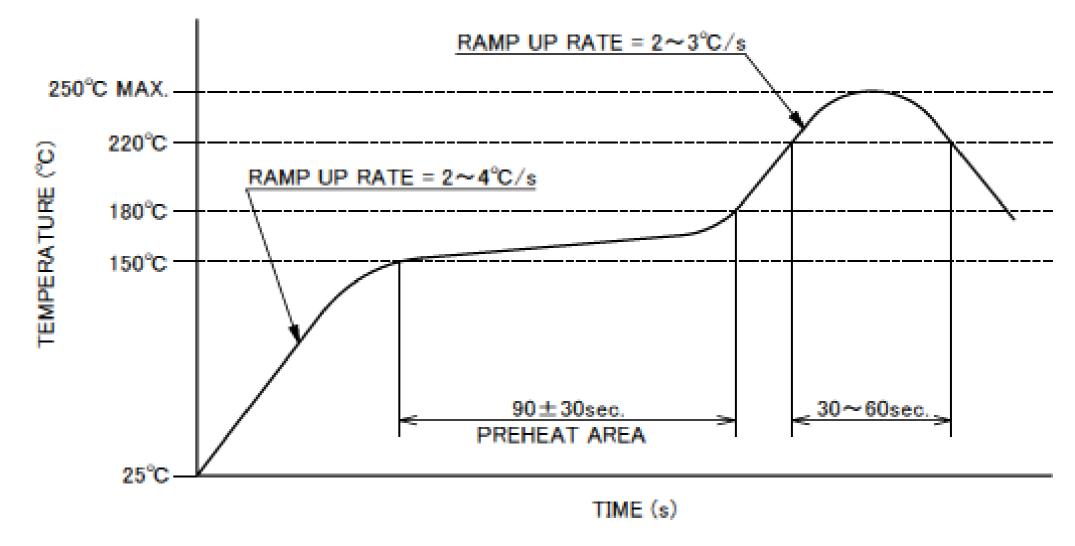
	PART NO.	PACKING
	3539-0001-45T	TRAY
ſ	3539-0001-45E	EMBOSS





CONNECTOR ON RECOMMENDED PATTERN





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

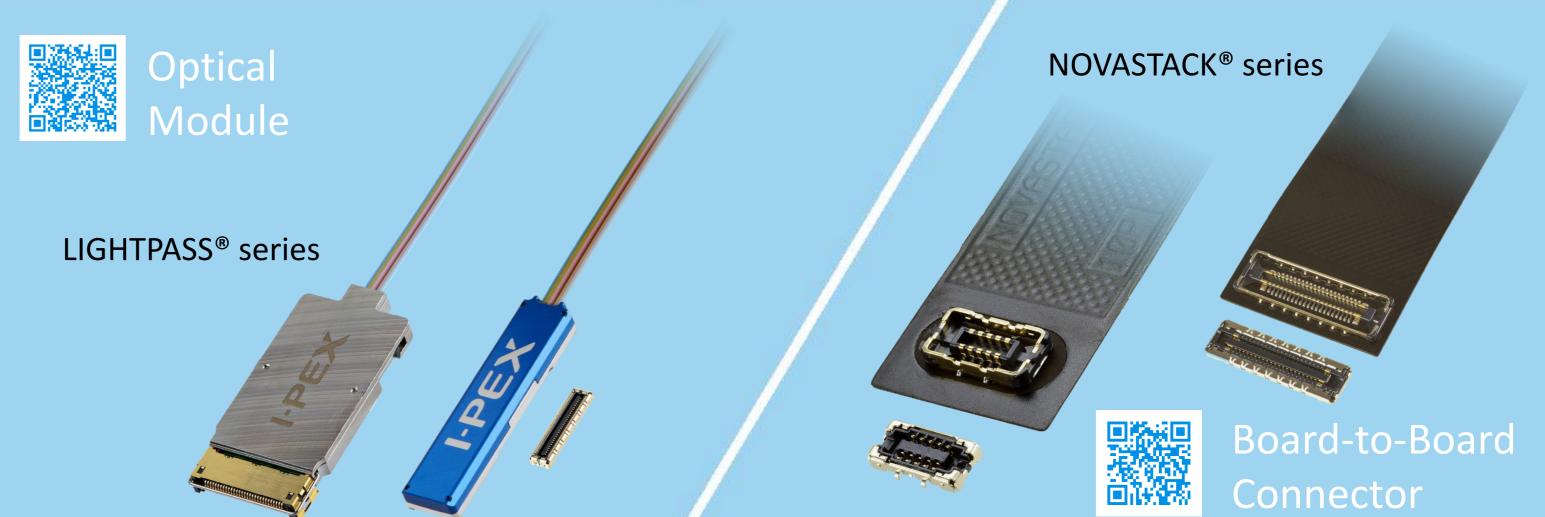
Rev.3

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	∠15.0°C MAX
COMPONENT TEMPERATURE (ENERGIZATION)	233~378K(-40°C~105°C)
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***

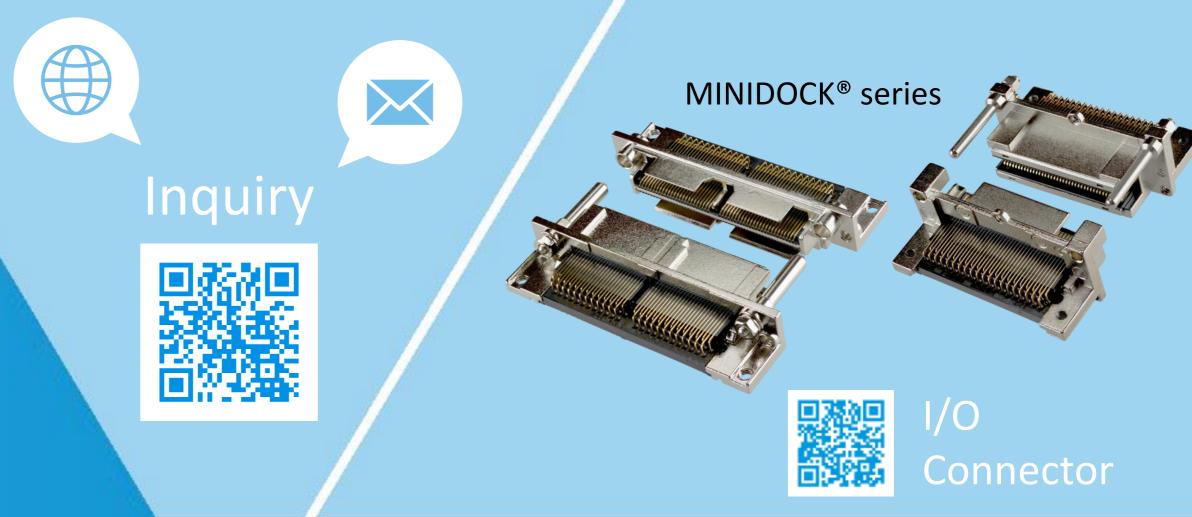


Custom Products Available









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