

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		2.55 mm (Plug : 7.5)	
		4.80 mm (Plug : 14.5)	
Size	Height	Receptacle	11.70 +/- 0.20 mm
		Plug	7.50 +/- 0.10 mm (3531-0001-00T)
	Width	Receptacle	14.50 +/- 0.10 mm (3539-0001-45T)
		Plug	7.6 +/- 0.20 mm
	Depth	Receptacle	3.4 +/- 0.20 mm (3531-0001-00T)
		Plug	5.2 +/- 0.20 mm (3539-0001-45T)
		Receptacle	3.4 +/- 0.20 mm
		Plug	6.0 +/- 0.10 mm (3531-0001-00T)
		Plug	7.6 +/- 0.10 mm (3539-0001-45T)

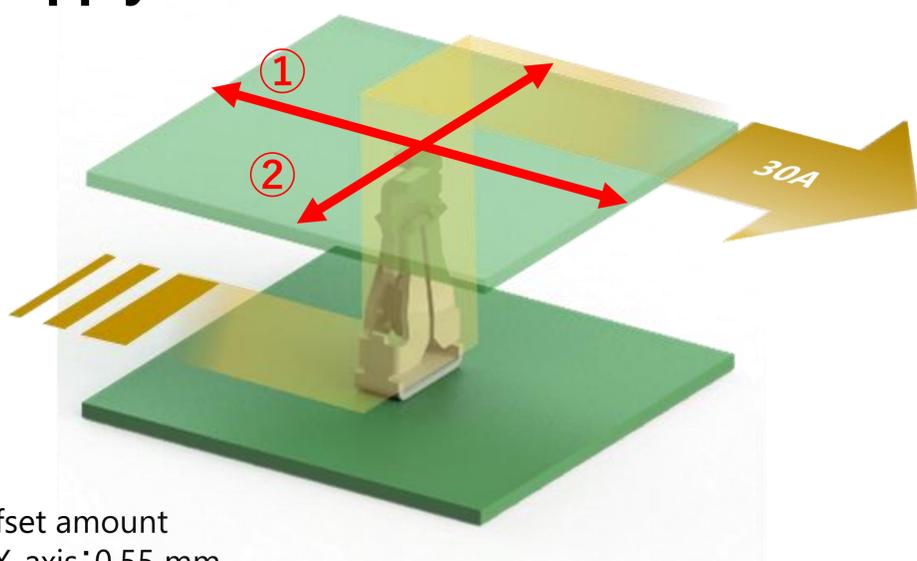
* Please inquire for pin counts not listed or outside of the pin count range.

Product Specifications:

Operating Temperature	-40 ~ 105 °C
Current Rating	30 A
Offset Amount (mm)	X : 0.55, Y : 0.70
Mating Force	15N max.



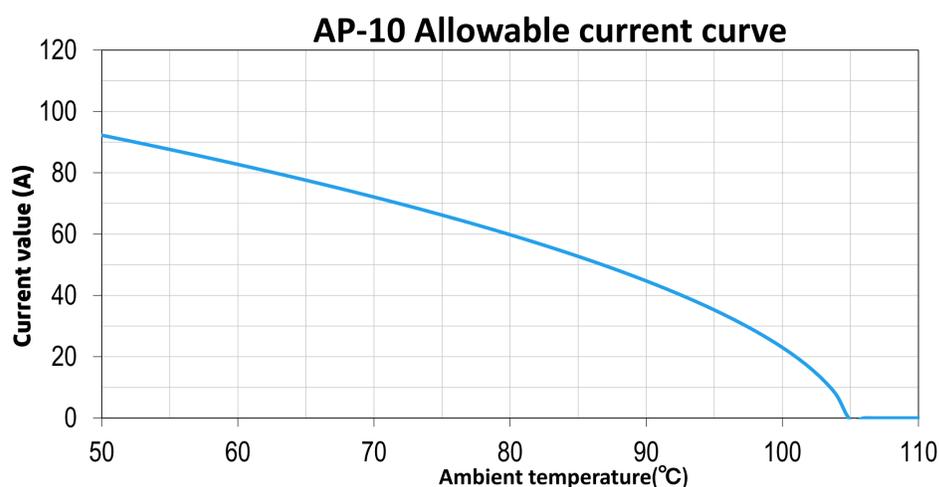
High current (30 A) and High temperature resistance, board-to-board power supply terminal



Offset amount

① X-axis: 0.55 mm

② Y-axis: 0.70 mm



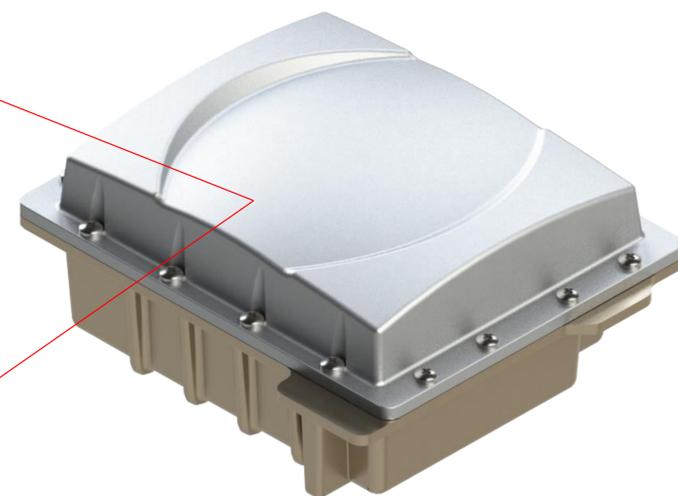
*The above results are actual measurement results under the test conditions specified by I-PEX.

*The results depend on the operating environment, so please contact us for details.

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

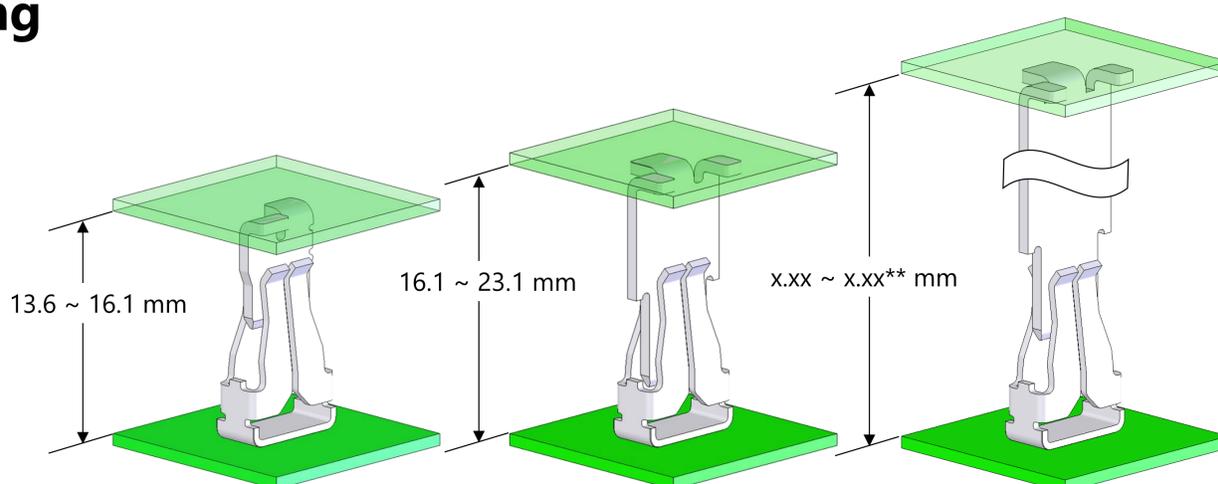
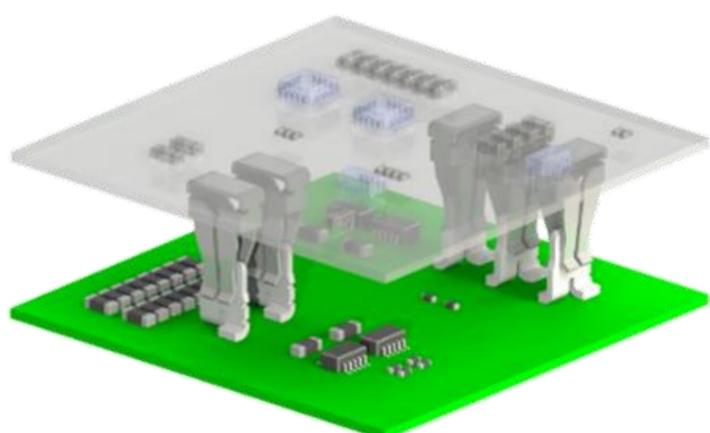
Comparison with traditional connect methods

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



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.

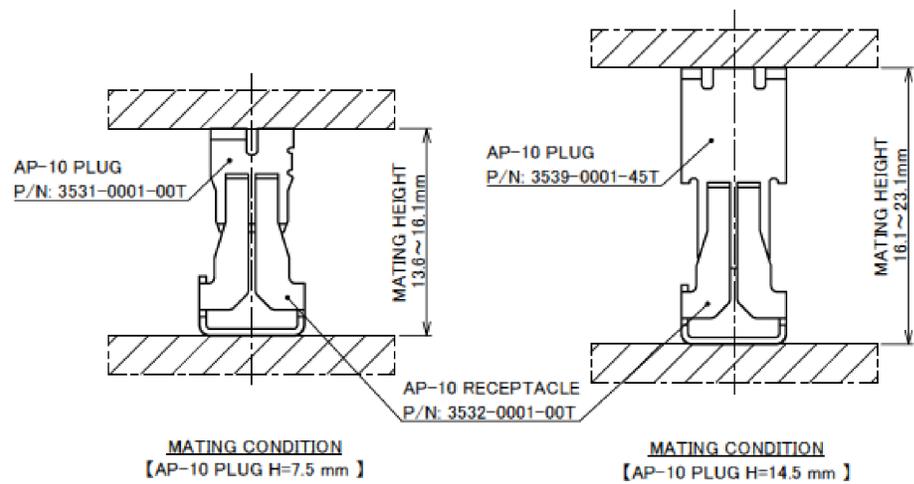
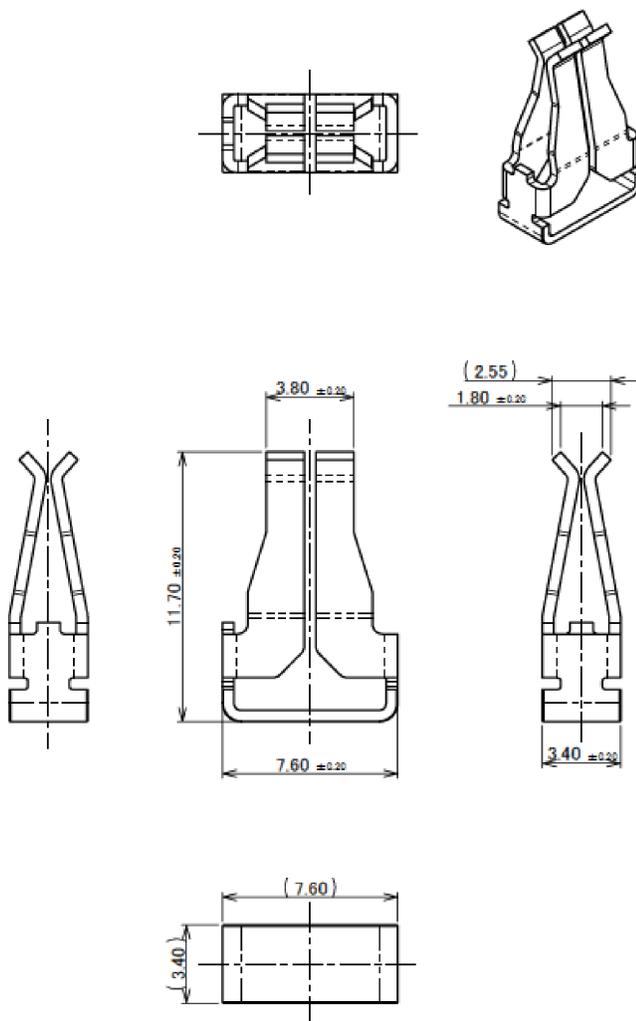
Component Parts Details

AP Series Receptacle

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



IATF 16949 Cetified

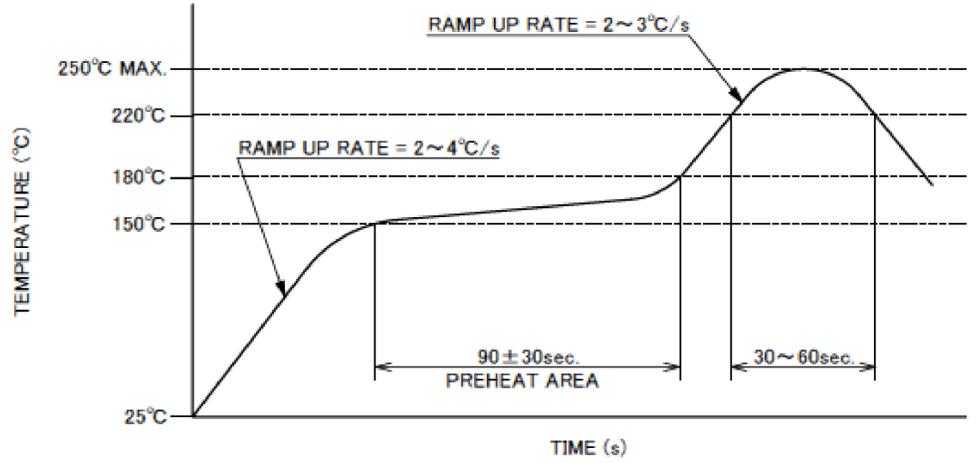
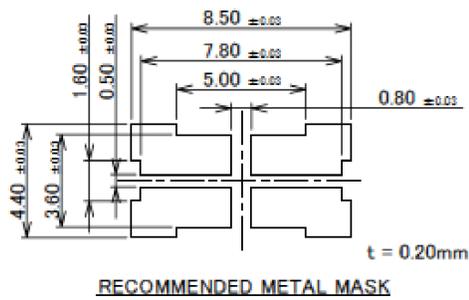
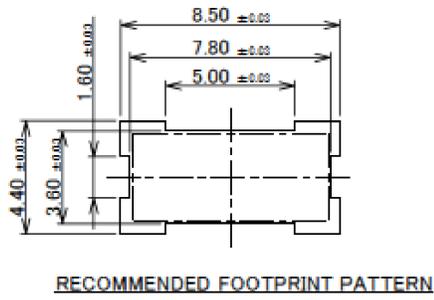


NOTES.
1. APPLICABLE CONNECTOR
AP-10 PLUG H=7.5 mm (P/N: 3531-0001-00T)
AP-10 PLUG H=14.5 mm (P/N: 3539-0001-45T)

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

AP Series Receptacle

PART NO.
3532-0001-00T



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

Rev.6

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3531-0001-00T 3539-0001-45T
RATING AMPERAGE	30A 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***

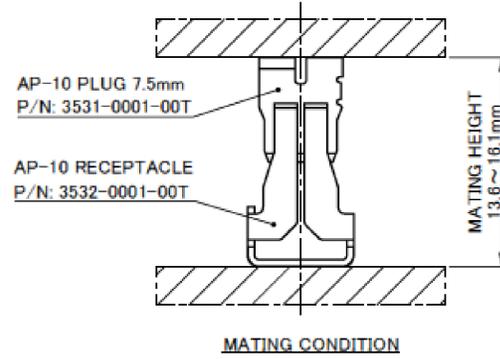
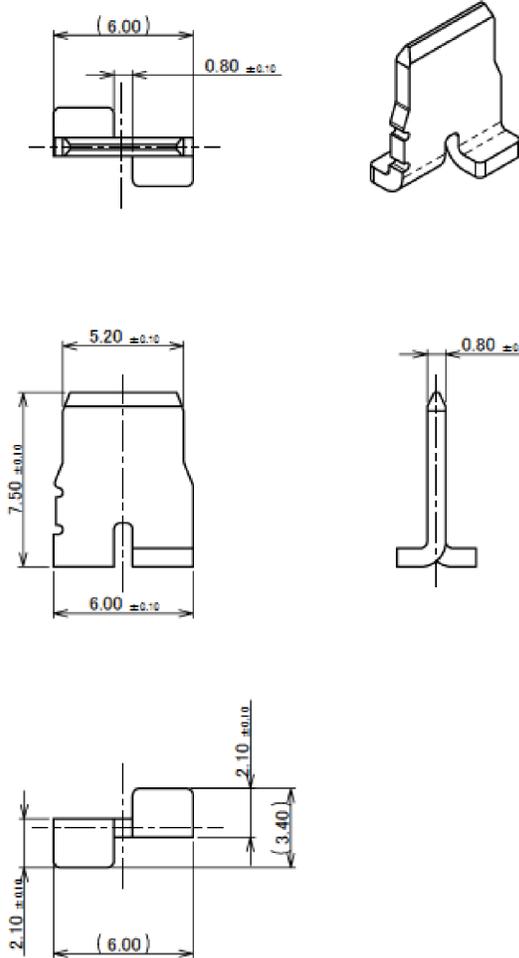
Rev.6

AP Series Plug

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



IATF 16949 Cetified

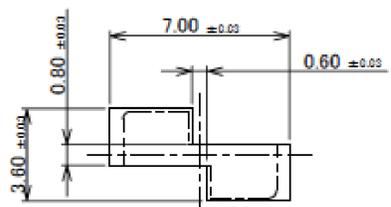


NOTES.
1. APPLICABLE CONNECTOR
AP-10 RECEPTACLE (P/N: 3532-0001-00T)

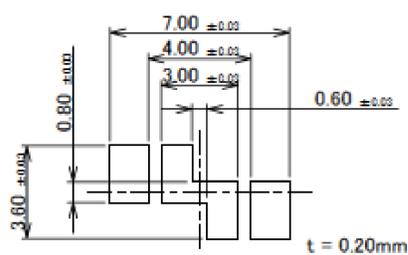
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
1	PLUG	BRASS	Sn 1.00 μm ~ 4.50 μm OVER Ni 1.00 μm ~ 4.50 μm

Rev.6

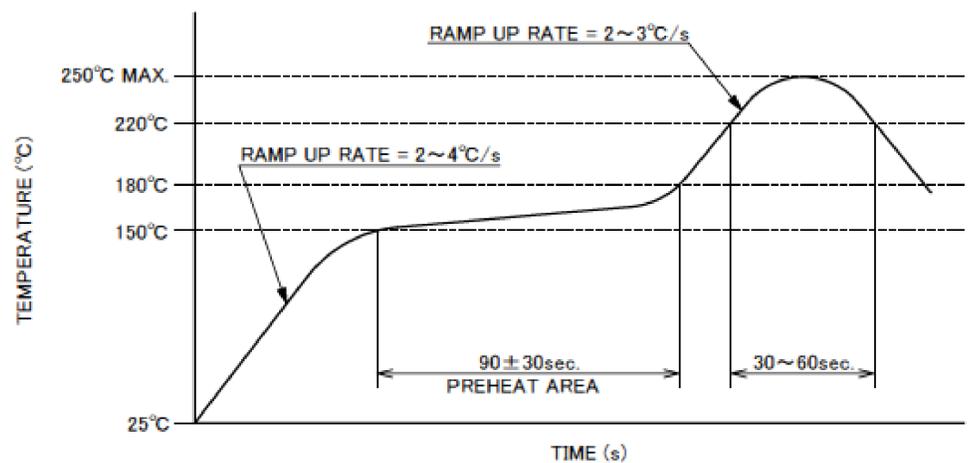
PART NO.	3531-0001-00T
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RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED METAL MASK



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

Rev.6

AP Series Plug

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	30A 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***

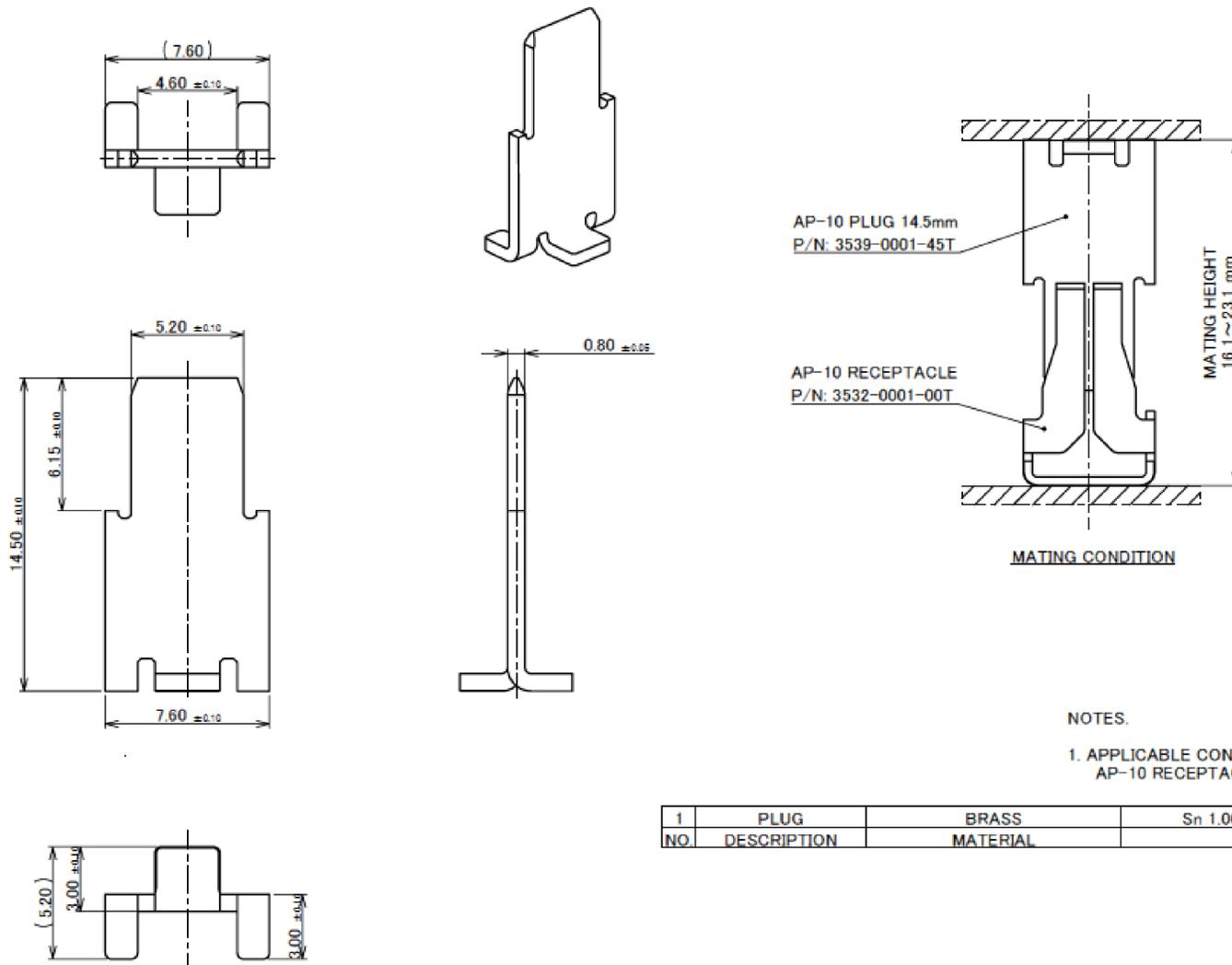
Rev.6

Recommended P/N		3539-0001-45T
PART NO.	PACKING	
3539-0001-45T	TRAY	
3539-0001-45E	EMBOSS	



Halogen Free RoHS Compliant

IATF 16949 Cetified



NOTES.

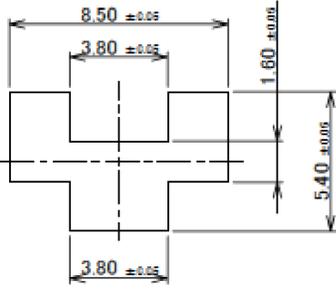
1. APPLICABLE CONNECTOR
AP-10 RECEPTACLE (P/N: 3532-0001-00T)

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

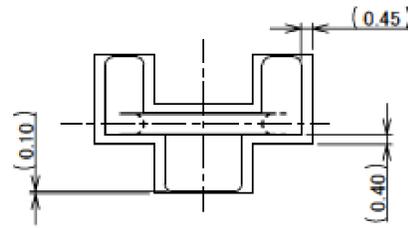
Rev.4

AP Series Plug

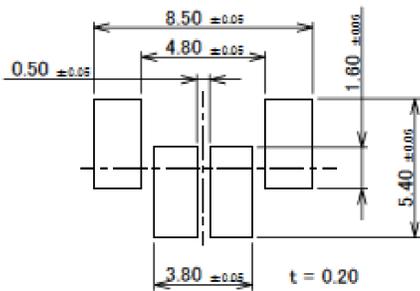
PART NO.	PACKING
3539-0001-45T	TRAY
3539-0001-45E	EMBOSS



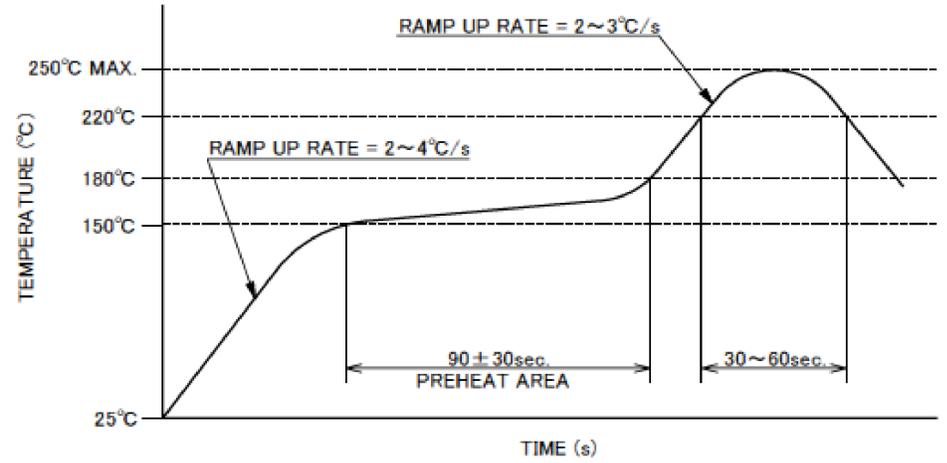
RECOMMENDED PATTERN LAYOUT



CONNECTOR ON RECOMMENDED PATTERN



RECOMMENDED METAL MASK LAYOUT



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

Rev.4

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	30A DC
TEMPERATURE RISE	Δ15.0°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 Connectors Available

RF Connectors

MHF® series



CABLINE® series

Micro-coaxial/Twinax Connectors



Wire-to-Board Connectors/Terminals

AP series

ISH® series



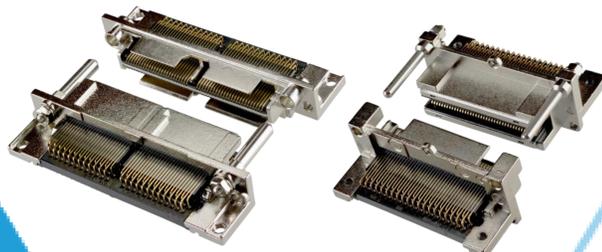
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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