

# AP-10

大功率電源端子，有助於電力電子設備的小型化，高度差可訂製。

## 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)	
Depth	5.2 (Plug: 14.5)	
	3.4 +/- 0.2 (Rece)	
	6.0 +/- 0.1 (Plug: 7.5)	
	7.6 +/- 0.1 (Plug: 14.5)	

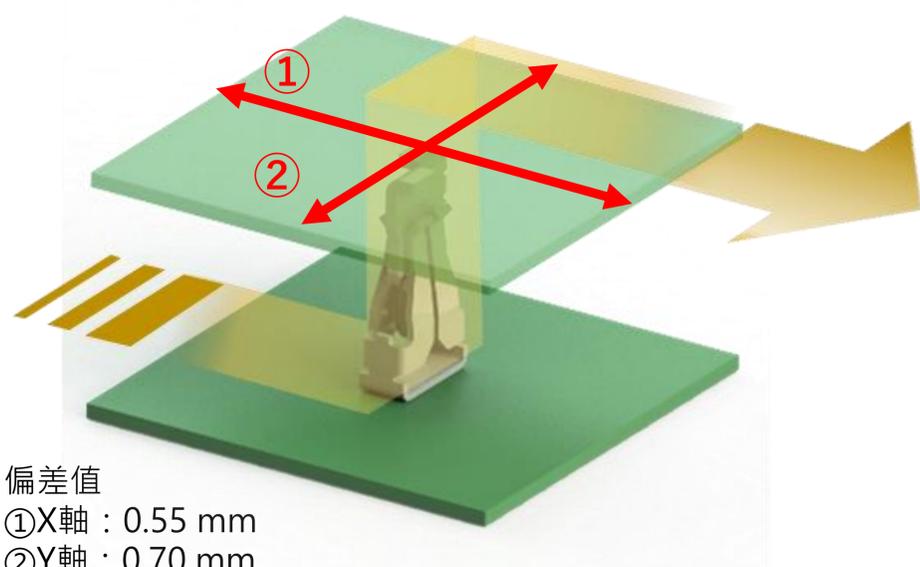
\*若有規格外 Pin 數需求,請與當地負責業務窗口聯繫。

## Product Specifications:

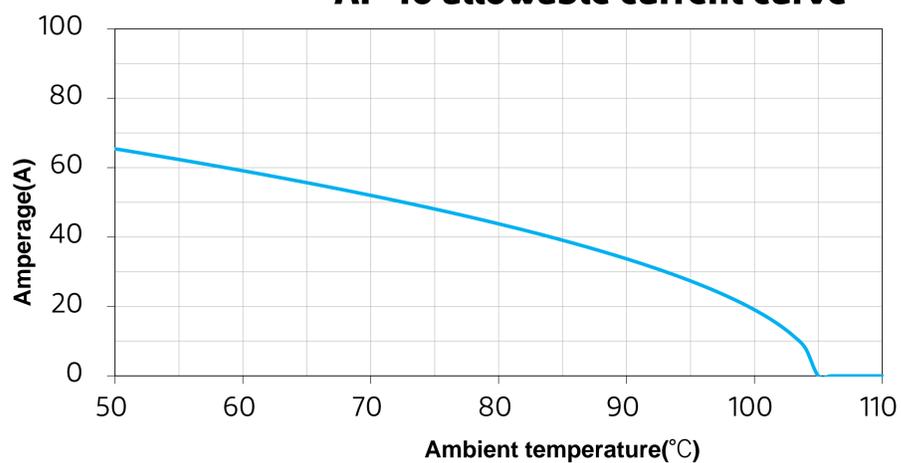
Amperage	16A DC
Operating Temperature	-40 - 105°C
Mating force	15N Max.
Contact resistance	1.0 mΩ Max.



## ▶ 大電流和耐高溫，板對板電源端子



## AP-10 allowable current curve

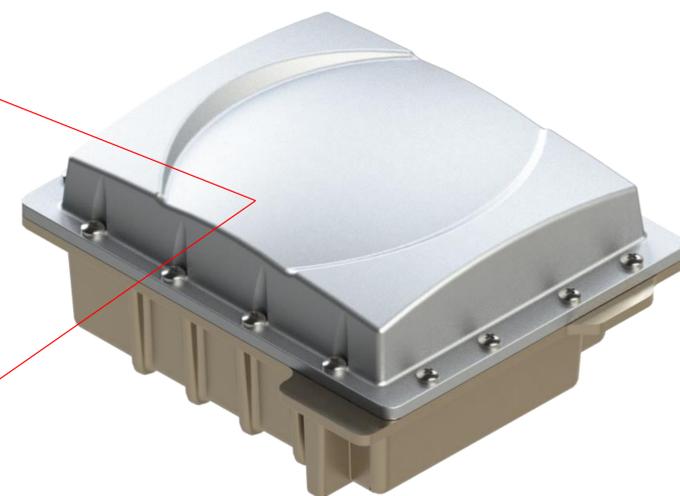


\*上述結果為敝司規定的測試條件下的實測結果  
\*取決於具體的使用環境，更多詳情歡迎垂詢

## ▶ 通過連接器的小型化實現PCB上的節省空間的設計

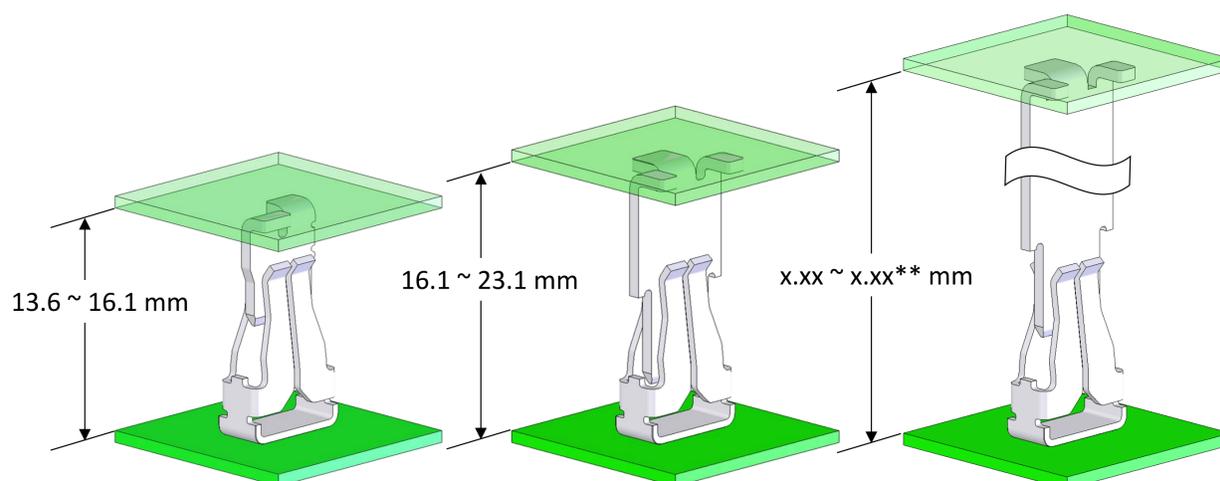
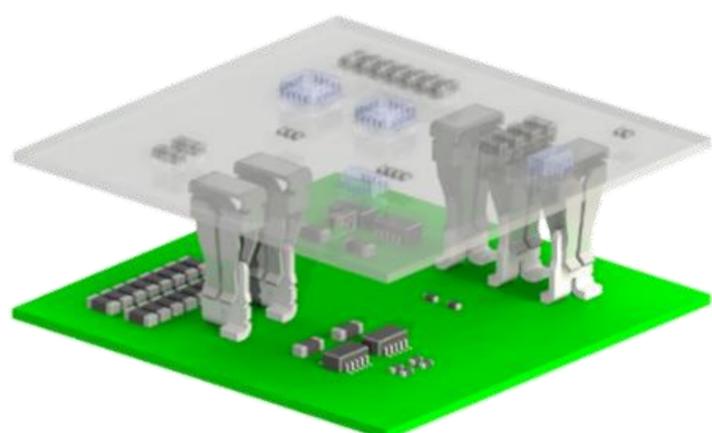
與傳統連接方式的比較

類別	線材連接	板對板連接器
圖面		
尺寸	X	O
觸覺反饋	△	O



最適合DC-DC轉換器和逆變器等電力電子設備

## ▶ 可搭配客製化高度設計



I-PEX提供多種高度的AP-10連接器

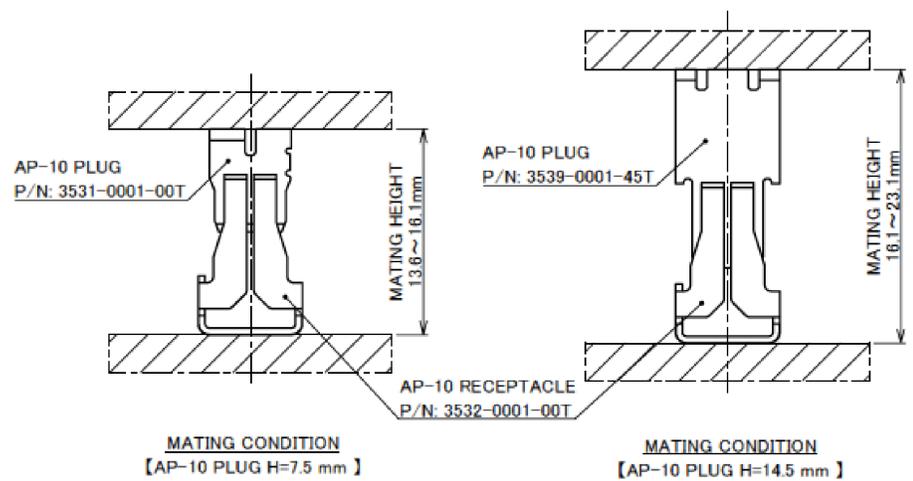
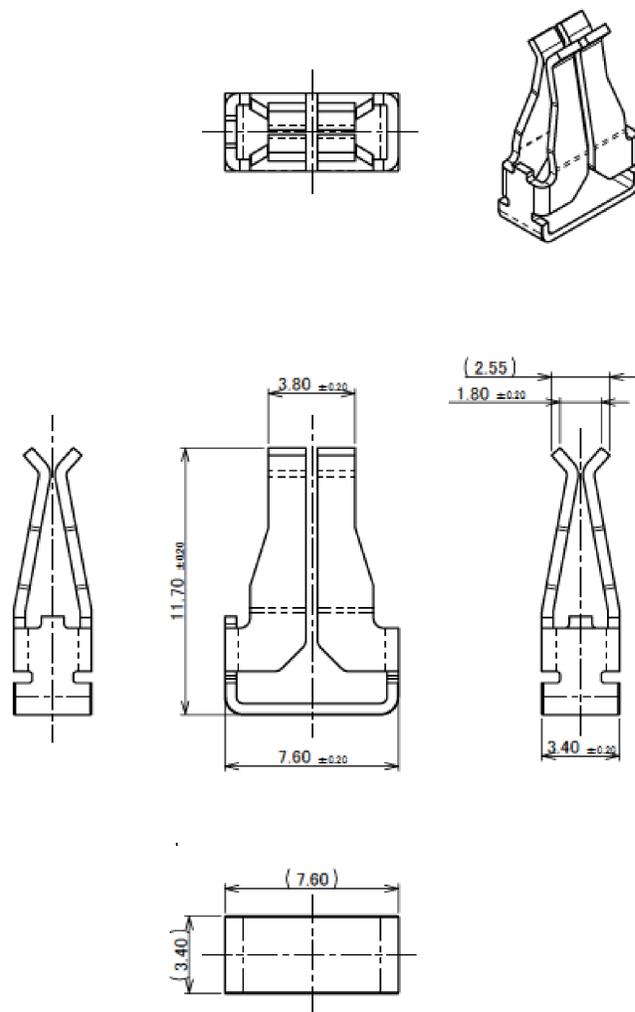
# Component Parts Details

## AP Series Receptacle

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



IATF 16949 Cetified [Planned]

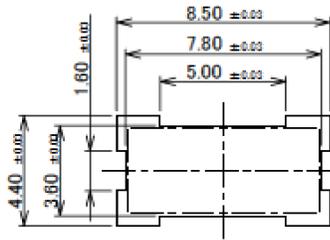


NOTES.  
 1. APPLICABLE CONNECTOR  
 AP-10 PLUG H=7.5 mm (P/N: 3531-0001-00T)  
 AP-10 PLUG H=14.5 mm (P/N: 3539-0001-45T)

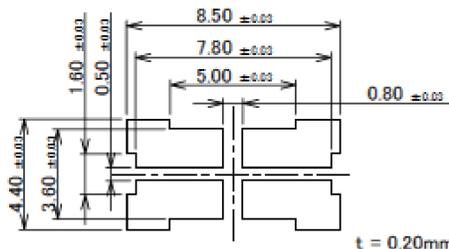
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
1	RECEPTACLE	COPPER ALLOY	Sn 1.00~4.50 μm OVER Ni 1.00~4.50 μm

# AP Series Receptacle

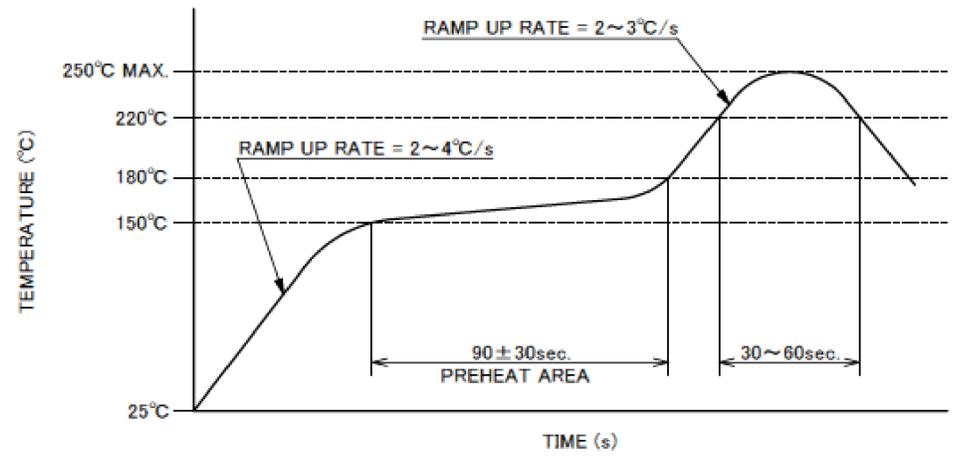
PART NO.
3532-0001-00T



RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED METAL MASK



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

Rev.5

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3531-0001-00T 3539-0001-45T
RATING AMPERAGE	16A DC
TEMPERATURE RISE	Δ150°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***

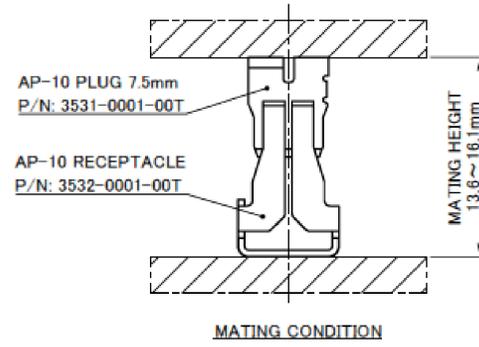
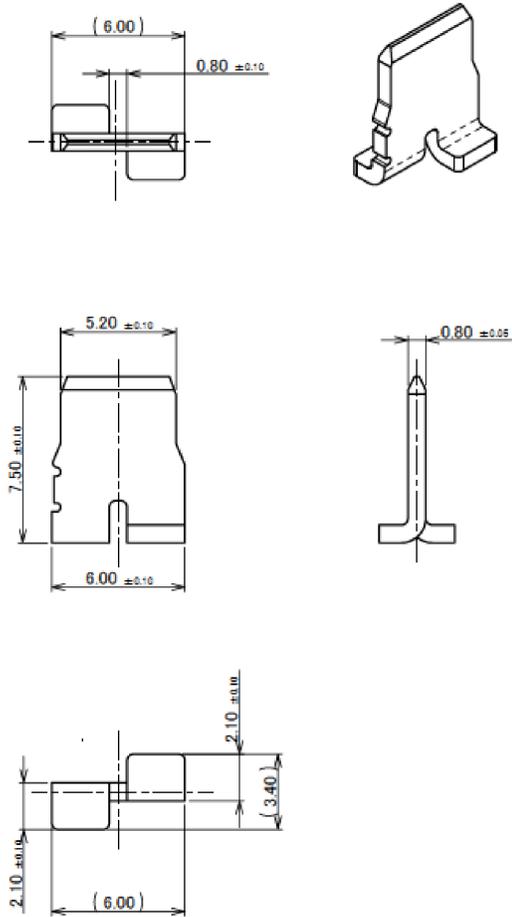
Rev.5

# AP Series Plug

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



IATF 16949 Cetified [Planned]

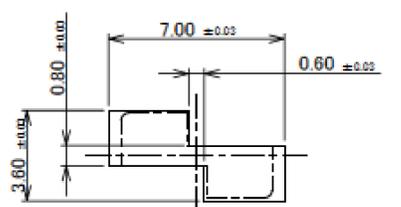


NOTES.  
1. APPLICABLE CONNECTOR  
AP-10 RECEPTACLE (P/N: 3532-0001-00T)

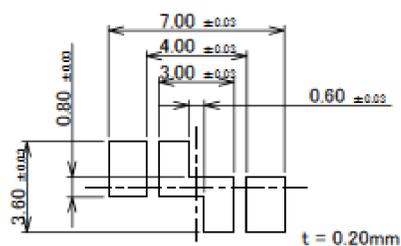
NO.	DESCRIPTION	MATERIAL	FINISH . REMARKS
1	PLUG	BRASS	Sn 1.00 μm ~ 4.50 μm OVER Ni 1.00 μm ~ 4.50 μm

Rev.5

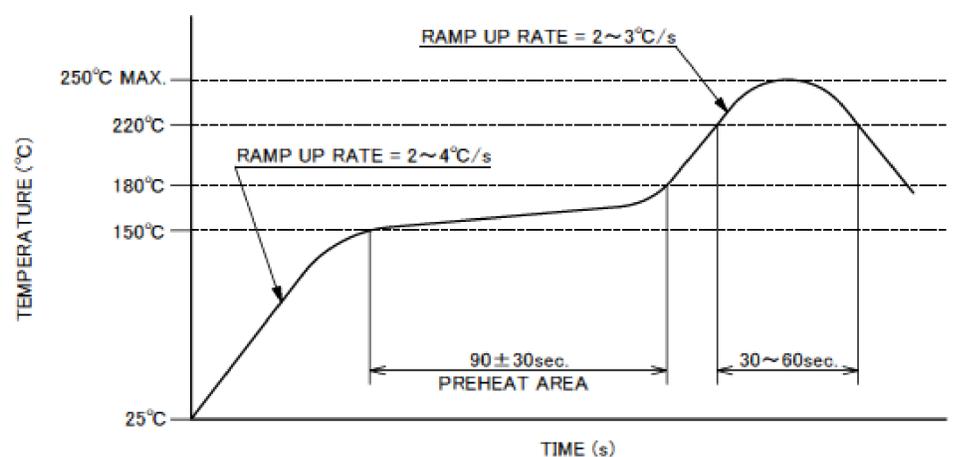
PART NO.
3531-0001-00T



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°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***

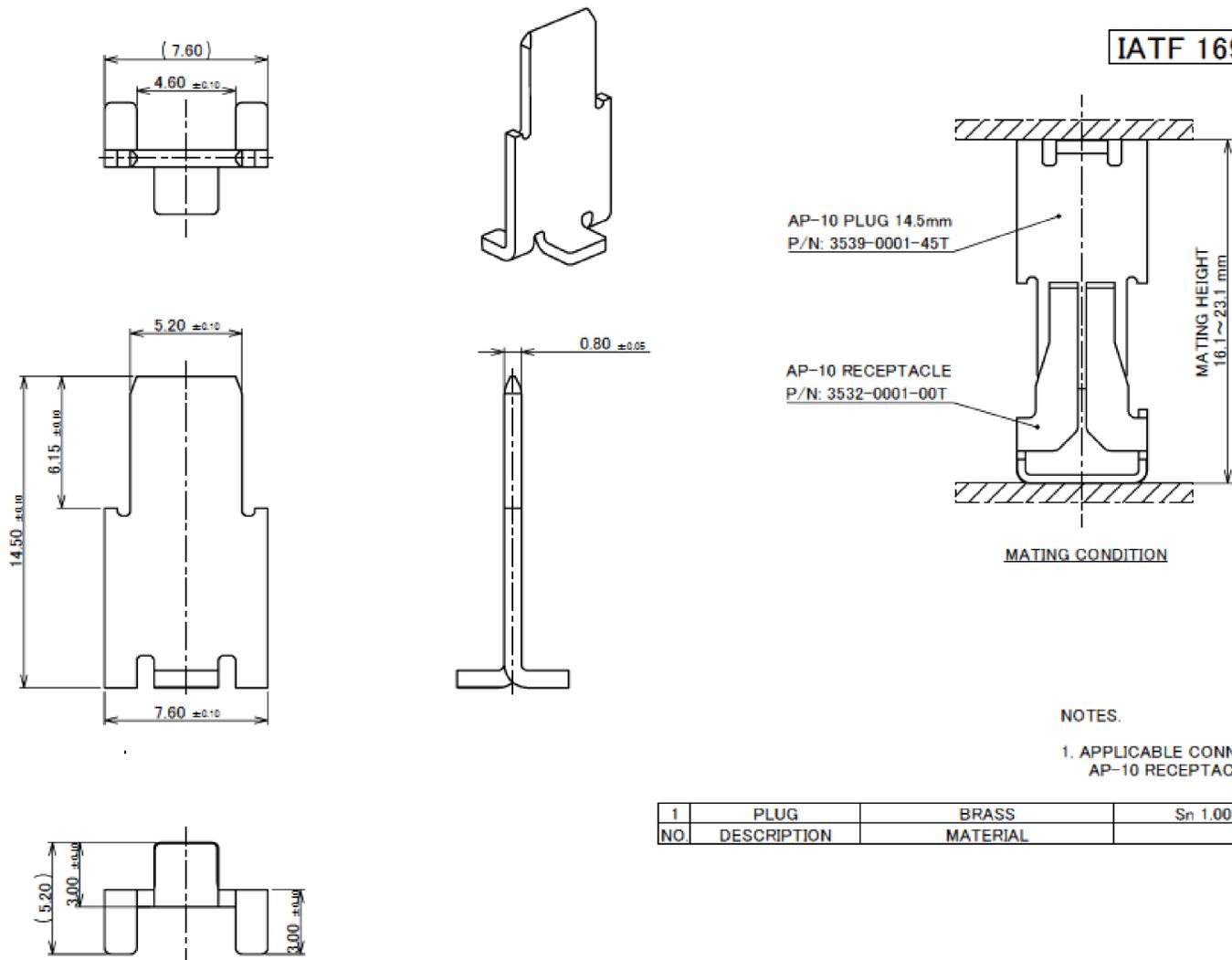
Rev.5

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]



NOTES.

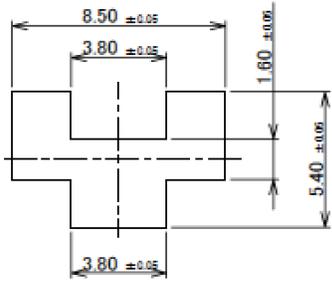
1. APPLICABLE CONNECTOR  
AP-10 RECEPTACLE (P/N: 3532-0001-00T)

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

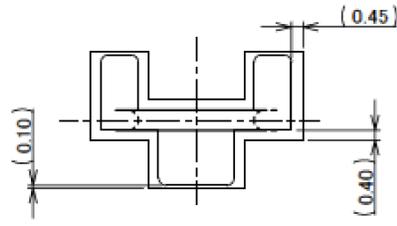
Rev.3

# AP Series Plug

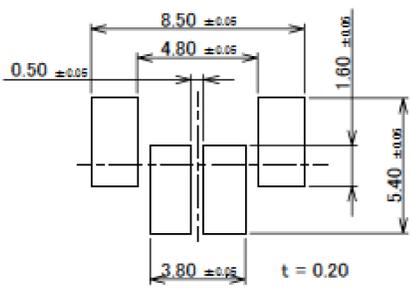
PART NO.	PACKING
3539-0001-45T	TRAY
3539-0001-45E	EMBOSS



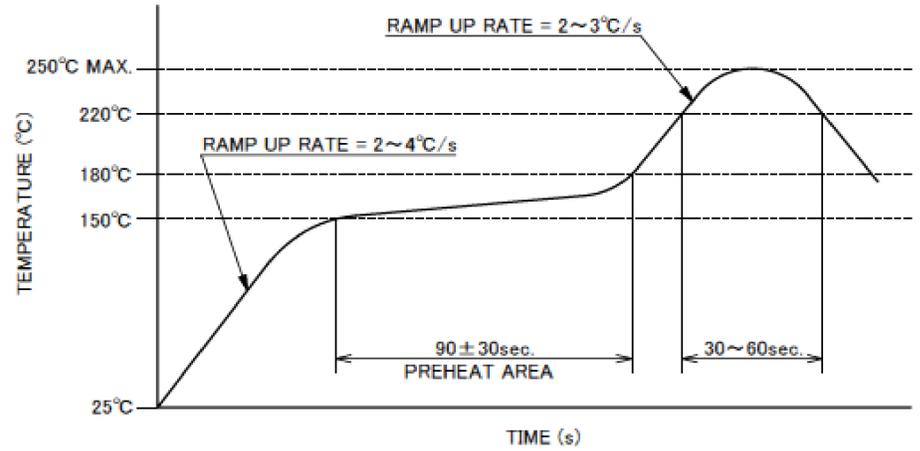
RECOMMENDED PATTERN LAYOUT



CONNECTOR ON RECOMMENDED PATTERN



RECOMMENDED METAL MASK LAYOUT



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

Rev.3

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	3532-0001-00T
RATING AMPERAGE	16A 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***

Rev.3

# Custom Connectors Available

## RF Connectors

MHF® series



## Micro-coaxial/Twinax Connectors



## Wire-to-Board Connectors/Terminals

AP series

ISH® series



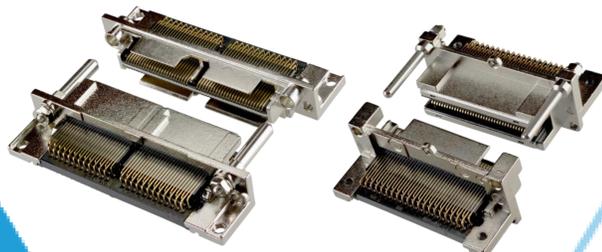
NOVASTACK® series



## Board-to-Board Connectors



## I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



## FPC/FFC Connectors



Inquiry



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