



- ✓ Rugged, secure and reliable I/O connector for multiple applications
- ✓ Durable up to 5,000 mating cycles
- ✓ Wide selection of mating directions and circuit sizes

Pin counts:

Range	Up to 240
Available	80, 100, 120, 160, 200, 240

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

Receptacle P/N		30***-**0T-F, **F
Plug P/N		30***-**0T-F, **F
Board pitch (mm)		0.635
Size (mm)	Height	9.9 ~ 16.9 mm (Plug) 11.13 ~ 22.53 mm (Rece)
	Depth	9.9 ~ 17.8 mm (Plug) 11.13 ~ 22.53 mm (Rece)
	Width	36.0 ~ 96.10 mm (Plug / Rece)
Rating	Amperage	0.5 A AC/DC (Per a Contact))
	Voltage	250 V AC/DC (Per a contact)
	Service Temperature	-65 °C +85 °C

Rugged, secure and reliable I/O connector for multiple applications

Slim Type Plug :

Part Number	Pin Count	Mating Type	Contact Type	Appearance
30029	80	Right Angle	2 Sequence	
30046	160		2 Sequence	

Slim Type Receptacle :

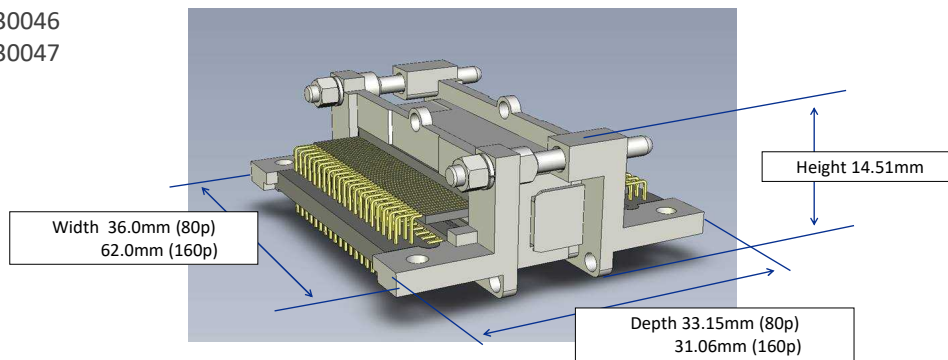
Part Number	Pin Count	Mating Type	Appearance
30030	80	Right Angle	
30047	160		
30056	160	Vertical	

Durable up to 5,000 mating cycles

Right Angle Plug – Right Angle Receptacle pair

Part Number

- Plug 30029, 30046
- Receptacle 30030, 30047

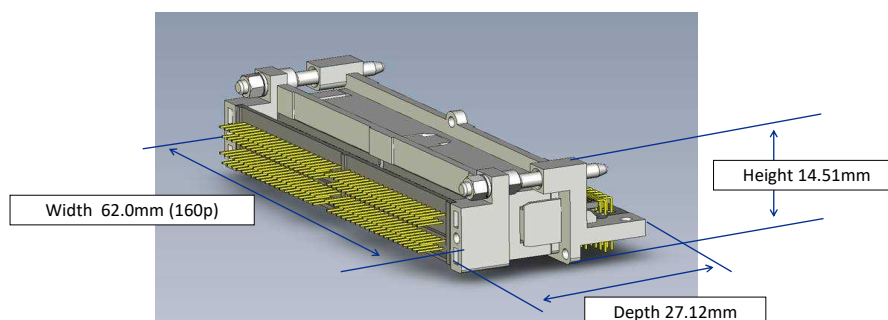


Wide selection of mating directions and circuit sizes

Right Angle Plug – Vertical Receptacle pair

Part Number

- Plug 30046
- Receptacle 30056

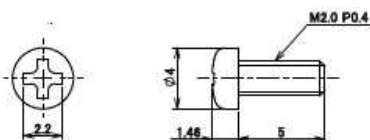
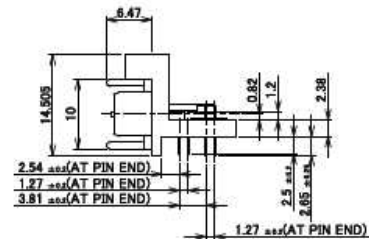
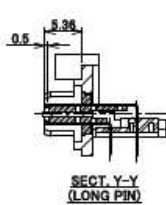
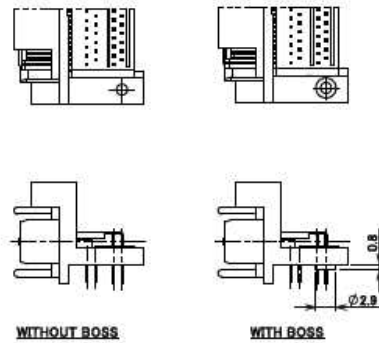
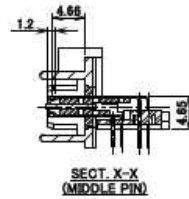
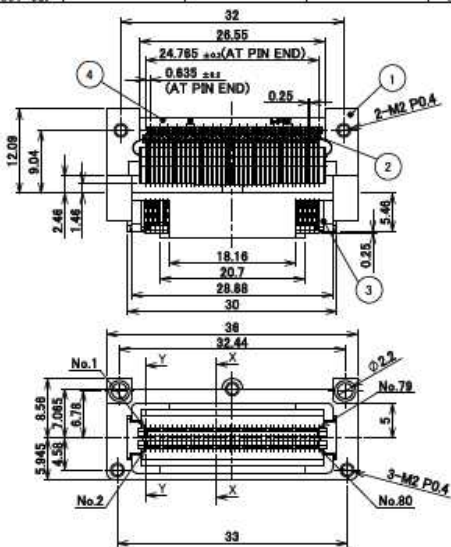


MINIDOCK™ SLIM

Component Parts Detail

Plug Assembly :

Recommended P/N		30029-080T-01F		BOSS	NOTES
PART NO.	CIRCUIT No./CONTACT LENGTH				
	LONG PIN	MIDDLE PIN			
30029-080T-F	1, 2, 79, 80	OTHERS	WITHOUT BOSS	WITH SCREW	
30029-080T-01F			WITHOUT SCREW		
30029-080T-02F			WITH SCREW		
30029-080T-03F			WITHOUT SCREW		



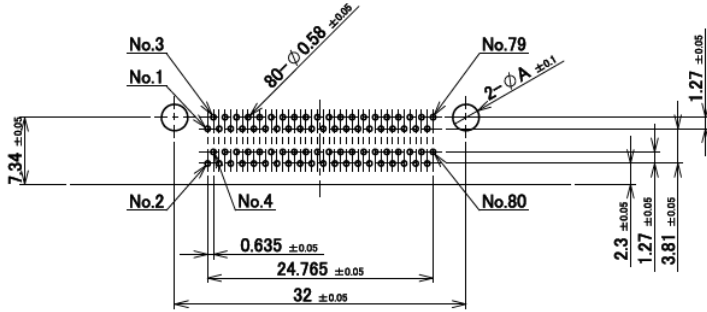
SCREW 90042-001
(S = 5/1)

NO.	DISCRPTION	MATERIAL	FINISH, REMARKS
4	LOCATOR PLATE	PA	BLACK UL94V-0
3	PLUG INSULATOR	PPS	BLACK UL94V-0
2	PLUG CONTACT	COPPER ALLOY	CONTACT PART Au FLASH OVER Pd/Ni SOLDER TAIL Au FLASH
1	PLUG SHELL	Zn ALLOY	NI PLATING

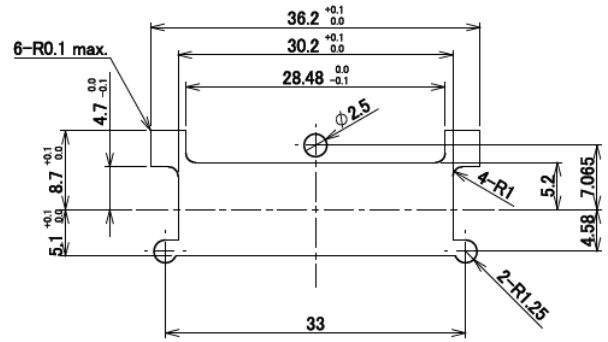
NOTE
1. CONNECTOR TO BE MATED: 30030

Rev. 14

Plug Assembly :



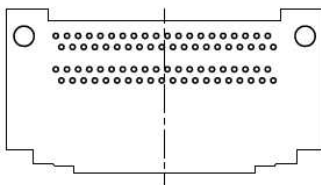
RECOMMENDED FOOTPRINT PATTERN $t=1.6$



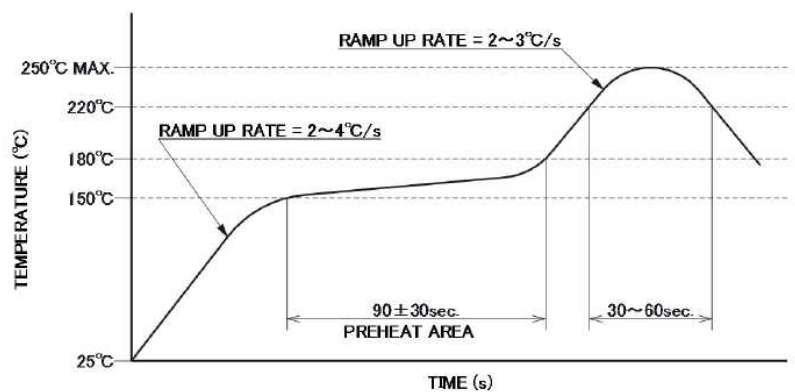
RECOMMENDED PANEL

Rev. 14

Plug Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev. 14

Plug Assembly :

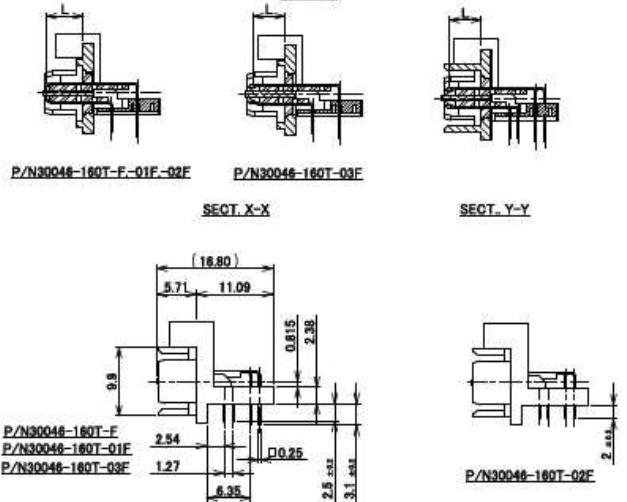
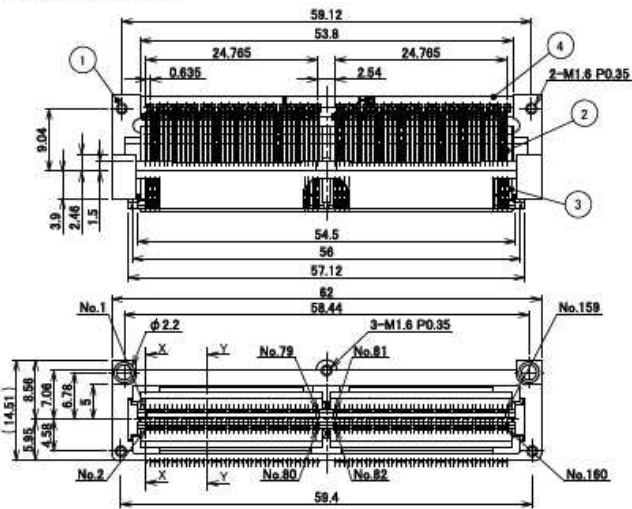
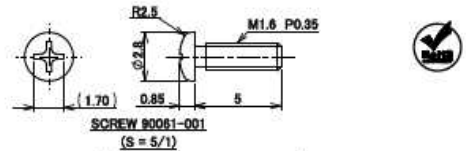
ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER A CONTACT)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-141
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev. 14

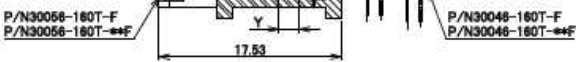
Plug Assembly :

Recommended P/N		30046-160T-F		CIRCUIT No./L=CONTACT LENGTH		NOTES
PART NO.	NO. OF POS.	Y (MATING TRAVEL OF C/T)	L=5.36	L=4.86		
30046-160T-F	160P	1.4, 2.1	No.1, 2, 79, 80, 81, 82, 159, 160	OTHERS	-	WITH SCREW
30046-160T-01F						NO SCREW
30046-160T-02F						WITH SCREW
30046-160T-03F						WITH SCREW

◆ MARK MEANS NOT AVAILABLE.



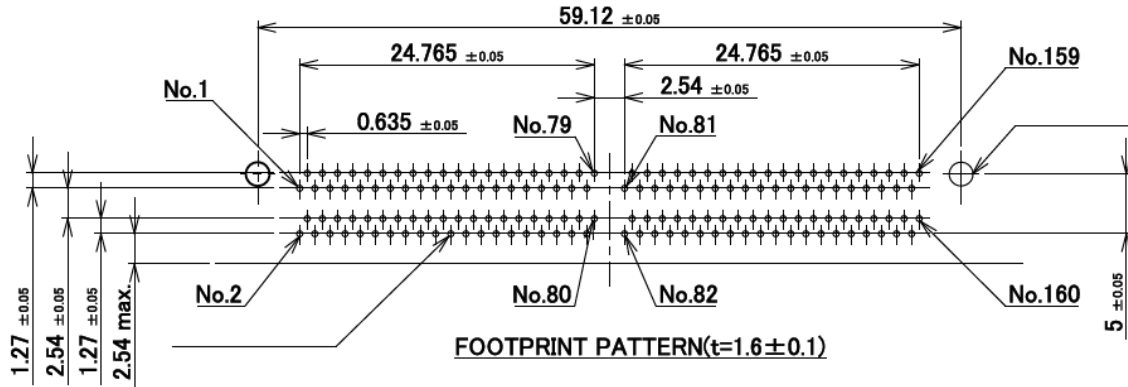
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
4	LOCATOR PLATE	PA	BLACK UL94V-0
3	PLUG INSULATOR	PPS	BLACK UL94V-0
2	PLUG CONTACT	COPPER ALLOY	Au PLATING
1	PLUG SHELL	Zn ALLOY	NI PLATING



- NOTES
- CONNECTOR TO BE MATED : 30047, 30058
 - ALLOWANCE DIMENSION OF GUIDE PIN : 0.8 mm

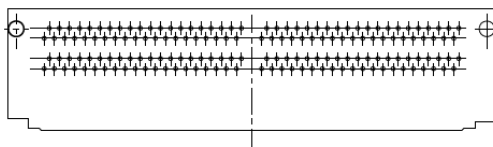
Rev. 14

Plug Assembly :

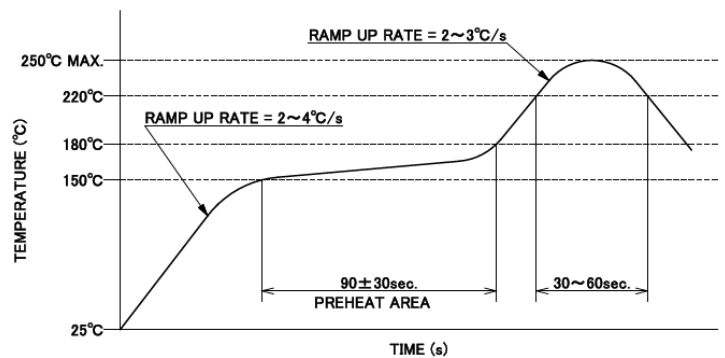


Rev. 14

Plug Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev. 14

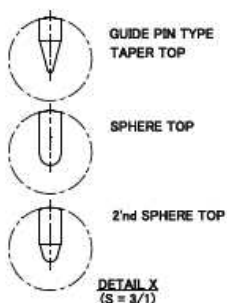
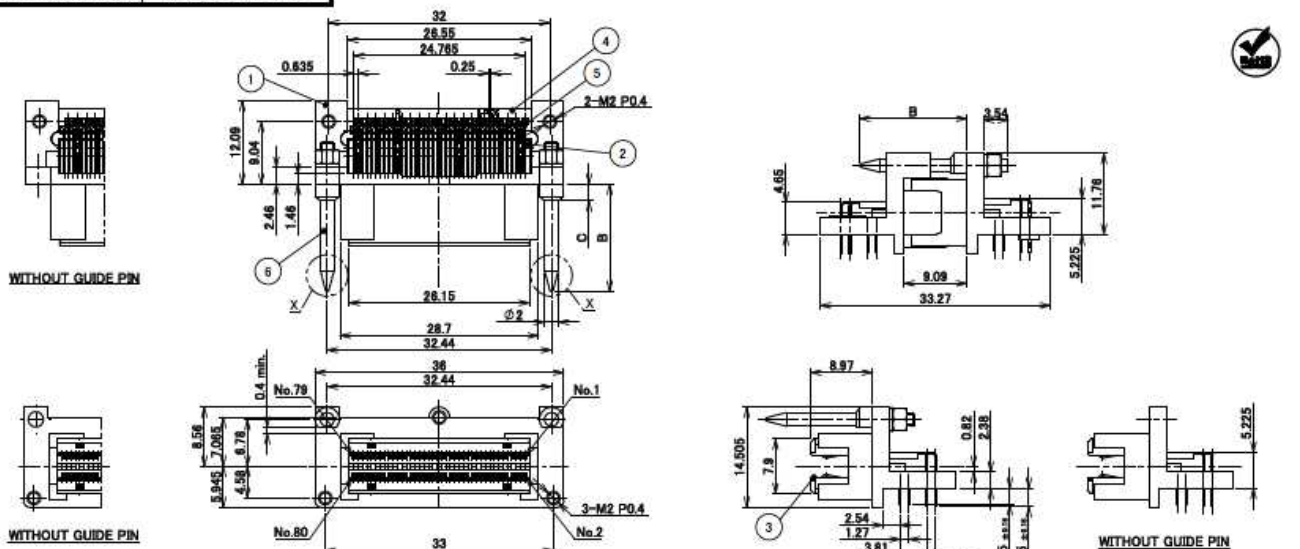
Plug Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER A CONTACT)/ **A AC/DC(TOTAL)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	0.9N/pos. MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-106
INSTRUCTION MANUAL	-

Rev. 14

Receptacle Assembly :

Recommended P/N 30030-080T-03F



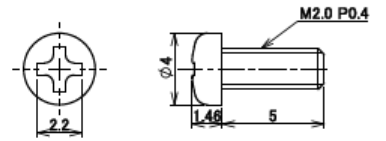
6	GUIDE PIN	STAINLESS STEEL (30030-080T-017*/018*) STEEL (EXCEPT 30030-080T-017*/018*)	NO PLATING
5	CONTACT	COPPER ALLOY	CONTACT AREA: Au FLASH OVER Pd/Ni SOLDER TAIL: Au FLASH
4	LOCATOR PLATE	PA	BLACK, UL94V-0
3	CONTACT GUIDE	PPS	BLACK, UL94V-0
2	INSULATOR	PPS	BLACK, UL94V-0
1	SHELL	Zn ALLOY	Ni PLATING
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

NOTES
1. CONNECTOR TO BE MATED: 30029

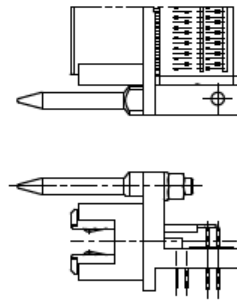
Rev. 17

Receptacle Assembly :

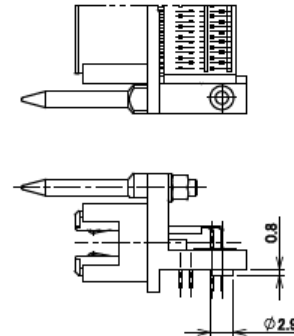
PART No.	GUIDE PIN TYPE	BOSS	A	B	C	NOTES
30030-080T-F	TAPER TOP	WITHOUT BOSS	2.3	15.5	2.4	WITH SCREW
30030-080T-01F	SPHERE TOP					WITHOUT SCREW
30030-080T-02F	TAPER TOP					WITH SCREW
30030-080T-03F	SPHERE TOP					WITHOUT SCREW
30030-080T-04F	WITHOUT GUIDE PIN (1413-00*)					WITH SCREW
30030-080T-05F	(WITHOUT NUT, WASHER)	WITHOUT SCREW				
30030-080T-06F	TAPER TOP	WITH BOSS	3.1	15.5	2.4	WITH SCREW
30030-080T-07F	SPHERE TOP					WITHOUT SCREW
30030-080T-08F	TAPER TOP					WITH SCREW
30030-080T-09F	SPHERE TOP					WITHOUT SCREW
30030-080T-10F	WITHOUT GUIDE PIN (1413-00*)					WITH SCREW
30030-080T-11F	(WITHOUT NUT, WASHER)	WITHOUT SCREW				
30030-080T-12F	2 nd SPHERE TOP	WITHOUT BOSS	2.3	15.5	2.4	WITH SCREW
30030-080T-13F		WITH BOSS	3.1			WITHOUT SCREW
30030-080T-14F	SPHERE TOP	WITHOUT BOSS	2.3	13.0	2.4	WITH SCREW
30030-080T-15F	TAPER TOP (MTL : STAINLESS STEEL)	WITHOUT BOSS	2.3	15.5		WITHOUT SCREW
30030-080T-16F	SPHERE TOP (MTL : STAINLESS STEEL)	WITHOUT BOSS	2.3	15.5		WITHOUT SCREW
30030-080T-17F	SPHERE TOP (MTL : STAINLESS STEEL)	WITHOUT BOSS	2.3	15.5	2.4	WITHOUT SCREW
30030-080T-18F	SPHERE TOP (MTL : STAINLESS STEEL)	WITHOUT BOSS	2.3	15.5		WITHOUT SCREW
30030-080T-19F	SPHERE TOP	WITH BOSS	3.1	14.0	4.0	WITH SCREW



SCREW 90042-001 (S = 5/1)



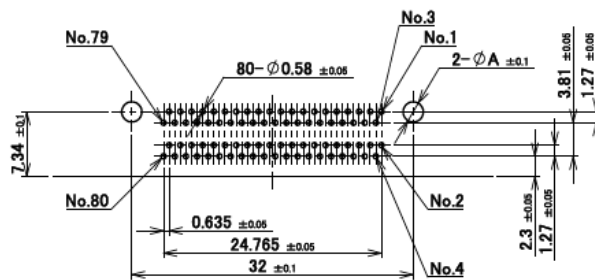
WITHOUT BOSS



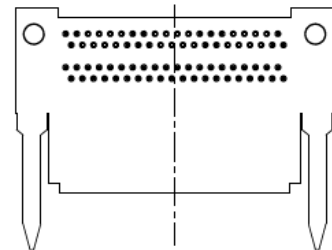
WITH BOSS

Rev. 17

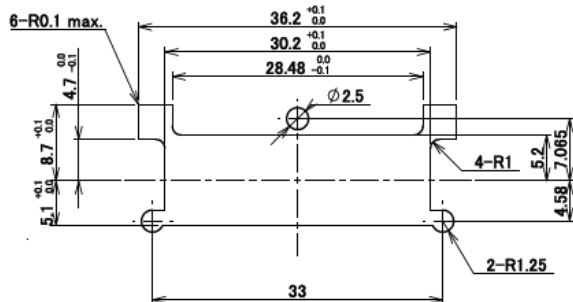
Receptacle Assembly :



RECOMMENDED FOOTPRINT PATTERN t=1.6



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



RECOMMENDED PANEL DIMENSIONS

Rev. 17

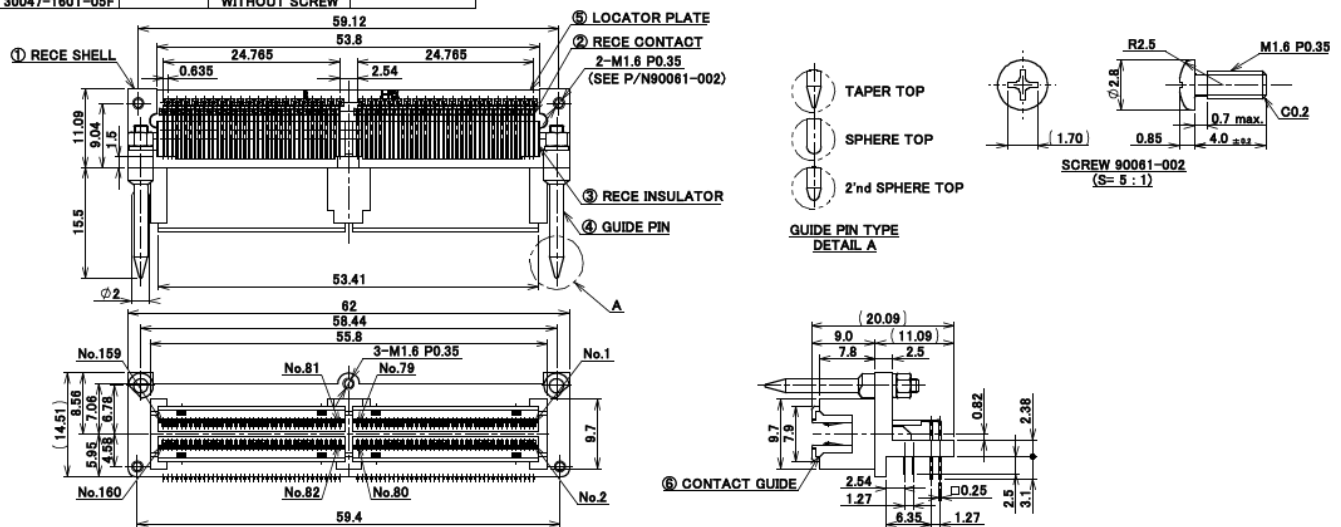
Receptacle Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER A CONTACT)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-071
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev. 17

Receptacle Assembly :

Recommended P/N	30047-160T-01F		
PART No.	NO.OF POS.	NOTES	GUIDE PIN P/N
30047-160T-F	160P	WITH SCREW	TAPER TOP
30047-160T-01F		WITHOUT SCREW	
30047-160T-02F		WITH SCREW	SPHERE TOP
30047-160T-03F		WITHOUT SCREW	
30047-160T-04F		WITH SCREW	2'nd SPHERE TOP
30047-160T-05F		WITHOUT SCREW	

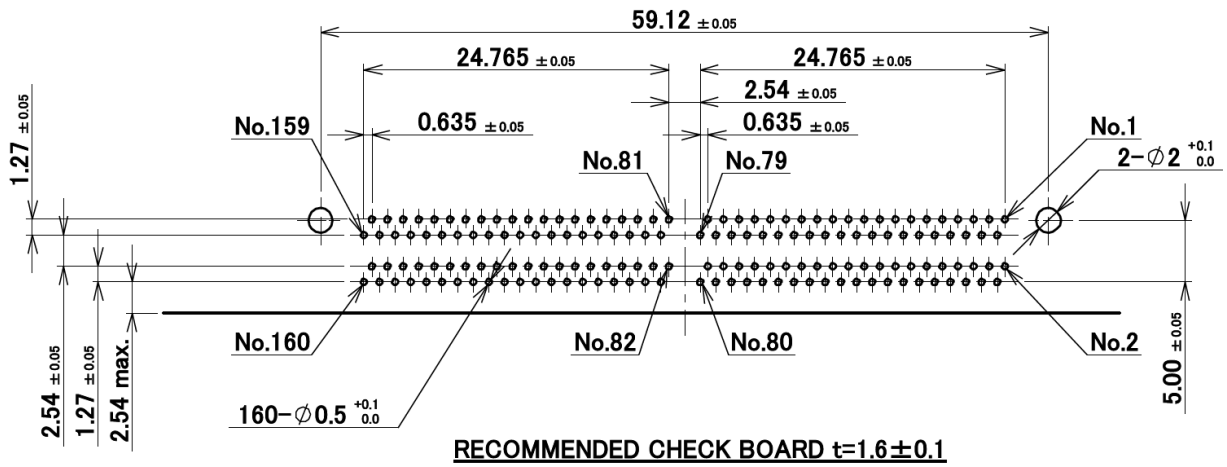


NO.	DISRIPTION	MATERIAL	FINISH , REMARKS
6	CONTACT GUIDE	PPS	BLACK UL94V-0
5	LOCATOR PLATE	PA	BLACK UL94V-0
4	GUIDE PIN	STEEL	Ni PLATING
3	RECE INSULATOR	PPS	BLACK UL94V-0
2	RECE CONTACT	COPPER ALLOY	Au PLATING
1	RECE SHELL	Zn ALLOY	Ni PLATING

NOTE
1. CONNECTOR TO BE MATED: 30046

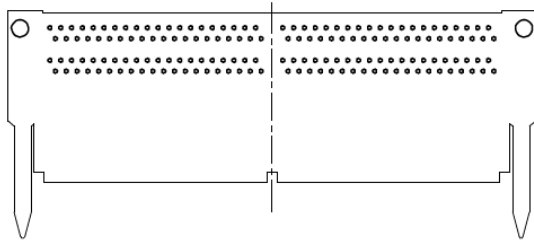
Rev. 10

Receptacle Assembly :

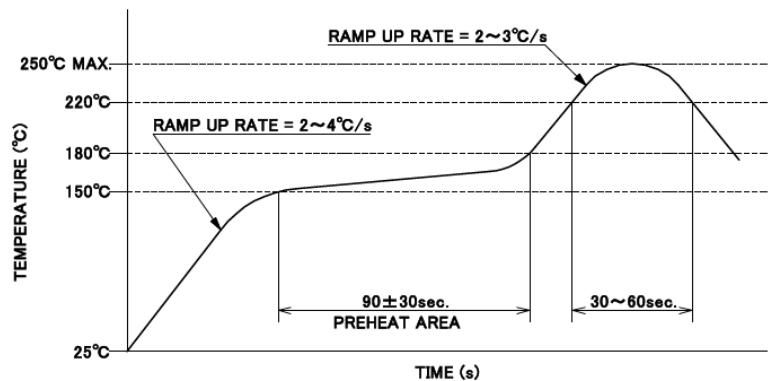


Rev. 10

Receptacle Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev. 10

Receptacle Assembly :

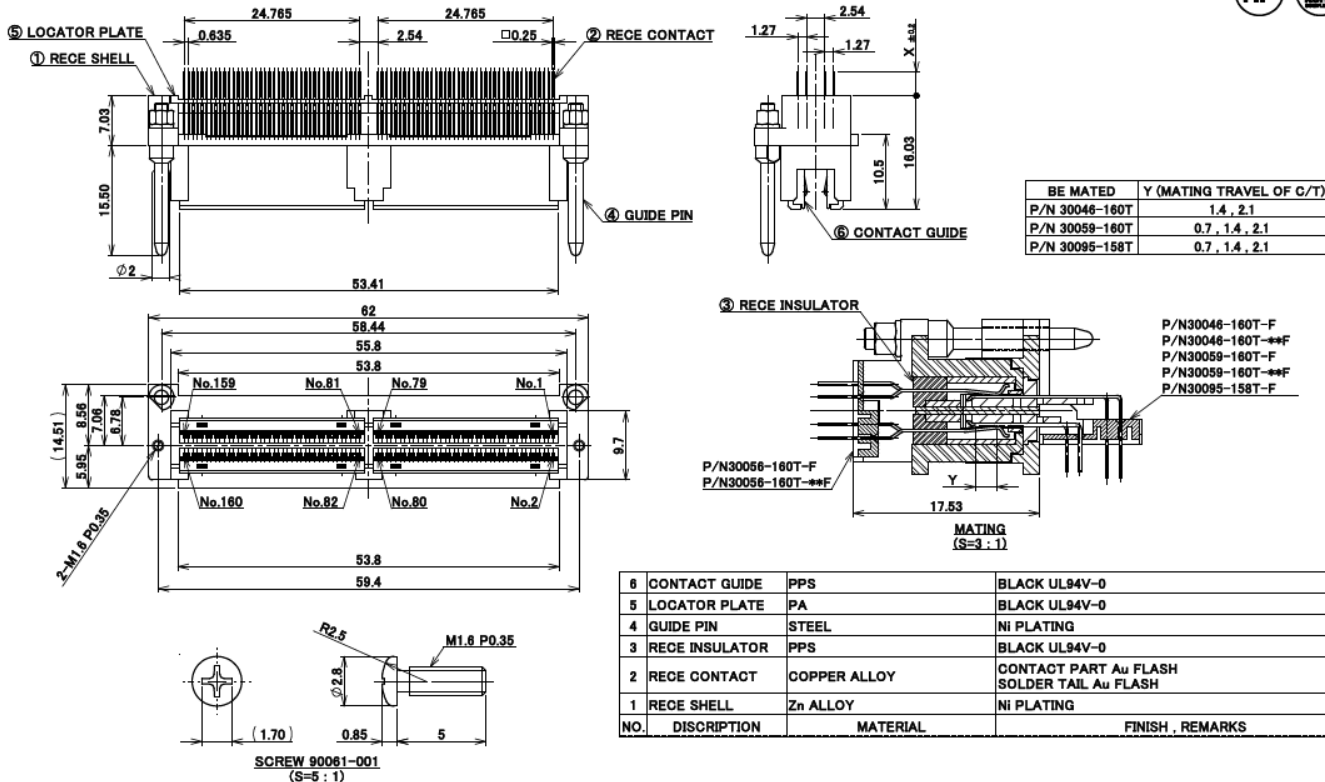
ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER A CONTACT)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-107
INSTRUCTION MANUAL	-

Rev. 10

Receptacle Assembly :

Recommended P/N 30056-160T-F

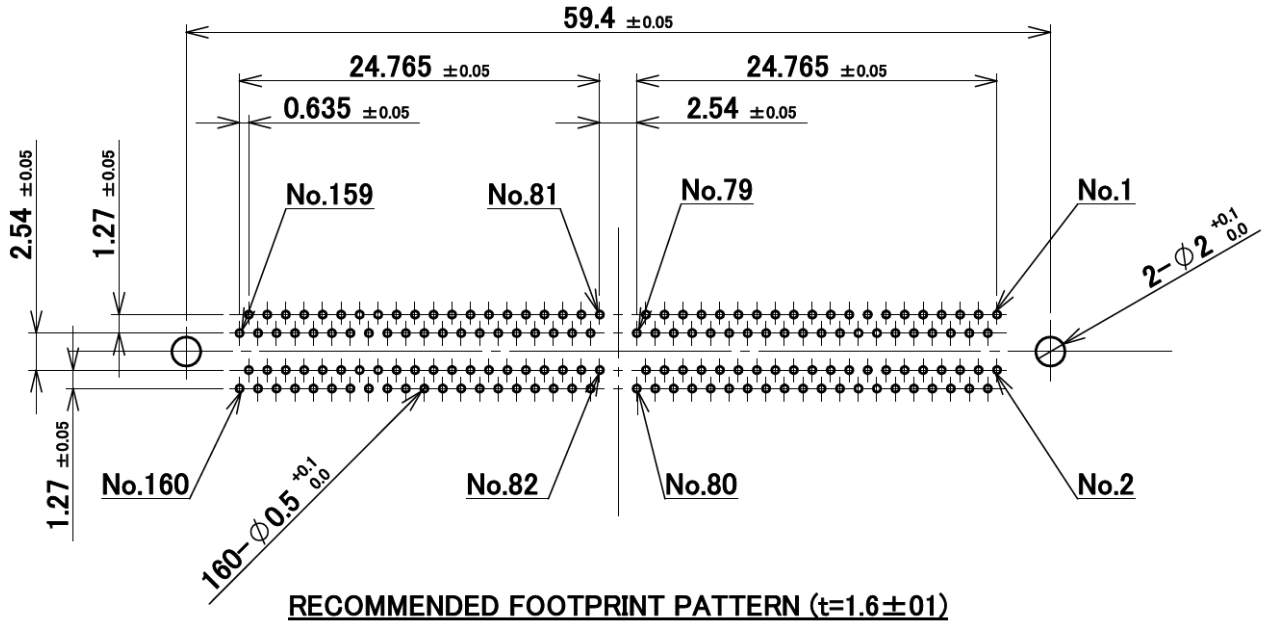
PART NO.	LEAD DIMENSION X	NOTES
30056-160T-F	3.3	WITH SCREW
30056-160T-01F		WITHOUT SCREW



- NOTES
- CONNECTOR TO BE MATED: 30046, 30059, 30095
 - ALLOWANCE DIMENSION OF GUIDE PIN : 0.8 mm

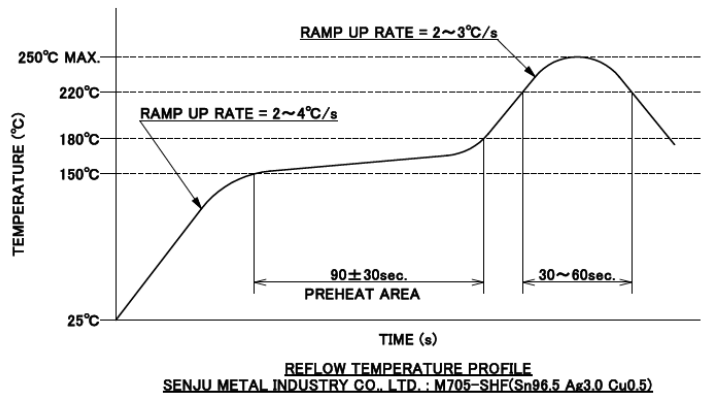
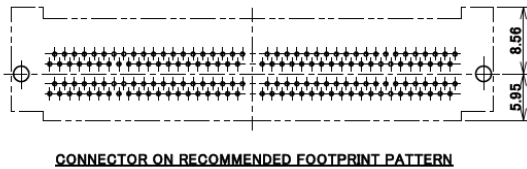
Rev. 11

Receptacle Assembly :



Rev. 11

Receptacle Assembly :



Rev. 11

Receptacle Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER A CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER A CONTACT)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-151
INSTRUCTION MANUAL	-

Rev. 11



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