imall

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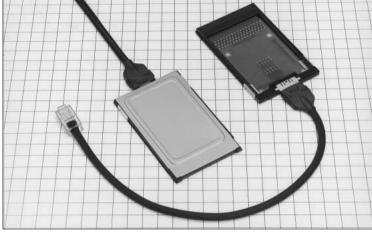
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



I/O Card Interface Connectors

NX Series

NEN



Features

1. Low Profile

Protorusion above the PCB board is only 2.9mm, and the connectors can be mounted to type I and II I/O cards.

2. EMI/RFI protection

Full metal shielding. Shield connects first, ahead of contacts.

3. ESD Secure

Thermoplastic molded covers assures insulation of the connections and shields from ESD.

4. Secure Latching

A built-in latch assures correct and secure mating of connector.

5. Reliable Conductor Termination

Reliable termination of conductors is accomplished by proven IDC termination.

6. Sequential Mating

The 0.8mm pitch contacts are engaging the corresponding parts in sequence: Ground-Power & Signal

7. Rugged Construction Securely attached to the board with optional screws.

8. Card Frame Kits Available as a separate part number.

9. Secure Attachment to Frame Kit. Compliant mounting bracket attaches the connectore directly to the frame kit.

Applications

Used with I/O cards, portable personal computers, and the external connections of various small-sized portable terminals.

Specifications

	Current	0.5 A	Operating temperature	-30℃ to +70℃ (Note 1)	Storage temperature range	-10℃ to +60℃ (Note 2)			
Ratings	Voltage	125 V AC	Operating humidity	95% R.H. or less (No condensation)	Storage humidity range	40 to 70% (Note 2)			
Ite	em		Requirements		Conditions				
1. Insulation	resistance	250 MΩ o	r greater	Measured at 10	0 V DC				
2. Voltage pr	roof	No flasho	ver or breakdown	300 V AC for 1	minute				
3. Contact re	sistance	40 mΩ or	less (initial value) (Note 3)	Measured at 10	0 mA				
4. Vibration		No electr greater	ical discontinuity for 10µs o	r Frequency of 10 t 3 directions, 2 ho	o 55 Hz, amplitude of 0.75 urs each	mm,			
5. Humidity r	esistance	Insulation	resistance: 250 M Ω or great	er Temperature of duration 96h	40℃ ±2℃, humidity of 9	0 to 95%,			
6. Rapid cha of tempera	•	No damag part	ge, cracks, or defects at any		15 to 30℃, within 5 min- ithin 5 min, for 5 cycles	→85℃, 30 min			
			f contact resistance from th ld be 60 m Ω or less	from the 3,000 times					
8. Resistance	8. Resistance to No melting of resin portions which affect				Reflow: at the recommended temperature profile				
soldering heat performance				Soldering iron te	emperature: 300℃ for 3 s	seconds			

Note 1 : Includes temperature rise when conducting.

Note 2 : The term storage refers to an unused products prior to boards mounting (including packing materials) that is being kept for a long period.

The operating temperature and humidity range are applied to the non-conducting condition following board assembly.

Note 3 : The aforementioned specifications are representative of this series. For information on specific parts, confirm with Sales Office.



MATERIALS AND FINISH

	Main N	Aaterials Used	
	Insulator	Thermoplastic Compound	*Black
Receptacle	Contacts	Copper alloy	Selective gold plating
connectors	Shell	Steel (Note)	Solder Plating
	Latch	Stainless steel	-
Dhua unit	Insulator	Thermoplastic Compound	*Black
Plug unit	Contacts	Copper alloy	Partial gold plating
Diversion	Cover case	Thermoplastic Compound	*Black
Plug cover	Shell	Stainless Steel	-
	Frame	Thermoplastic Compound	*Black
	Frame ground terminal	Phosphor bronze	Gold Plating
Frame kit	Spring pin	Stainless steel	-
	Cpil spring	Stainless steel	-
	Panel	Stainless steel	Thermal adhesive tape attached

Suitable Cable

	I/O cable				
Center conductor	AWG # 28(7/0.127)				
Shielding outer diameter	0.58mm	0.62mm			
Cable style	UL20276 and UL2789	UL2990			

Note : The 0.3mm offset type and those used for equipment interfaces are made of stainless steel. *UL94V-0

Product Number Configuration

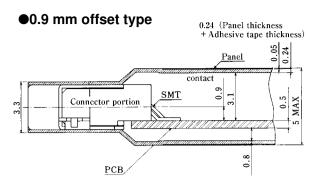
Receptacle

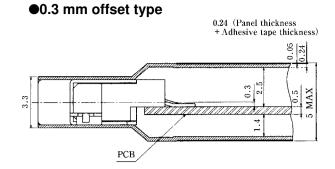
 $\frac{\mathsf{NX}}{\bullet} \quad \frac{\mathsf{60}}{\$} \quad \frac{\mathsf{T}}{\bullet} \quad \frac{\mathsf{A}}{\bullet} \quad - \quad \frac{\mathsf{15}}{\$} \quad \frac{\mathsf{S}}{\$} \quad \frac{\mathsf{AA}}{\$} \quad \frac{\mathsf{9}}{\$} \quad - \quad \frac{\mathsf{SP}}{\$}$ Plug $\frac{\mathsf{NX}}{\bullet} \quad \frac{30}{\bullet} \quad \frac{\mathsf{T}}{\bullet} \quad \frac{\mathsf{A}}{\bullet} \quad - \quad \frac{15}{\bullet} \quad \frac{\mathsf{P}}{\bullet} \quad \frac{\mathsf{AA}}{\bullet}$ Plug Covers $\frac{\mathbf{NX}}{\mathbf{0}} - \frac{15}{\mathbf{6}} \frac{\mathbf{T}}{\mathbf{6}} \frac{\mathbf{A}}{\mathbf{0}} - \frac{\mathbf{CV}}{\mathbf{0}}$ Frame Kits $\frac{NX}{0} - \frac{15}{6} \frac{T}{6} - \frac{KT}{0} \frac{9}{3} \frac{(05)}{6}$ Panel (With 9, 15, or 25 contacts) $\frac{\mathsf{NX}}{\bullet} \frac{\mathsf{T}}{\bullet} - \frac{\mathsf{P}}{\bullet} \frac{(\mathsf{05})}{\bullet}$ (With 32 contacts) $\frac{NX}{0} - \frac{32}{6} \frac{T}{6} - \frac{P}{0} \frac{(05)}{6}$

0	Serise name : NX Series								
2	Termination style								
	30 : IDC termination (for fine wire) 60 : SMT type								
	60 : SMT type								
3	Latch								
	T : Inner lock								
4	Applicable Conductor								
	A : AWG #28								
6	Number of contacts : 9, 15, 25, 32								
6	Connector type								
	P : Plug S : Receptacle								
7	Polarizing								
	AA : AA type								
8	Offset 9:0.9 mm 3:0.3 mm								
	(Dimension from connector center line to the surface of the PCB)								
9	Variations								
	SP : Compliant mounting bracket (for cards use) SH : Through hole								
1	Types of accessories								
	CV : Vertical opening cover case								
	CV1 : Vertical opening cover case (Thin 5 mm thinclness type)								
	KT : Frame kit								
	F : Frame								
	P : Panel (For Type I card)								
	PA : Panel (For Type $\ \ I$ card)								
	BS : Bushing								
	CSA : Coil spring								
	CSB : Coil spring								
Ð	Serial number by type								
12	Panel finish								
	No symbol: Silver matt finish								
	(05): Dull Processing material								

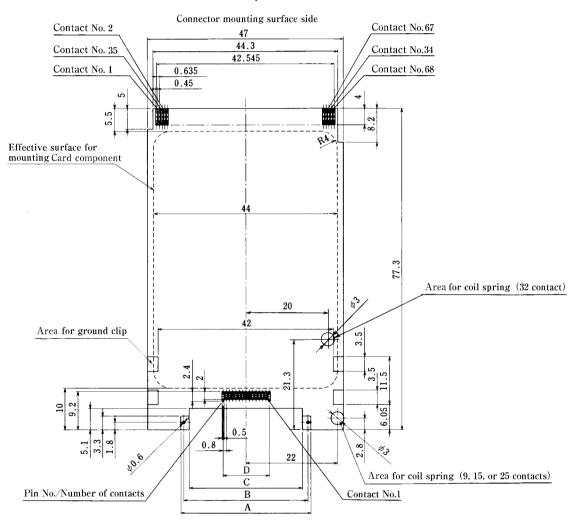


Dimensions of Connector Cross Section





Recommended Board Dimensions (Board Thickness: 0.5 mm Maximum)



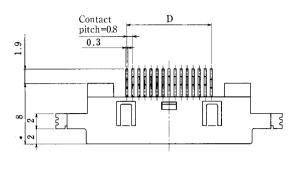
							Unit: mm
Product No.	HRS No.	Number of contacts	А	В	С	D	offset
NX- 9T-KT9	CL234-0010-8	9	26.4	25.0	22.4	6.4	0.9
NX-15T-KT9	CL234-0011-0	15	31.2	29.8	27.2	11.2	0.9
NX-25T-KT9	CL234-0012-3	25	39.2	37.8	35.2	19.2	0.9
NX-32T-KT9	CL234-0026-8	32	44.8	43.4	40.8	24.8	0.9
NX- 9T-KT3	CL234-0034-6	9	26.4	25.0	22.4	6.4	0.3
NX-15T-KT3	CL234-0035-9	15	31.2	29.8	27.2	11.2	0.3
NX-25T-KT3	CL234-0036-1	25	39.2	37.8	35.2	19.2	0.3
NX-32T-KT3	CL234-0054-3	32	44.8	43.4	40.8	24.8	0.3

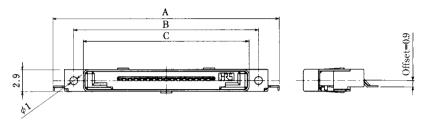
в10 ЖС

RECEPTACLE CONNECTORS

●0.9 mm offset type





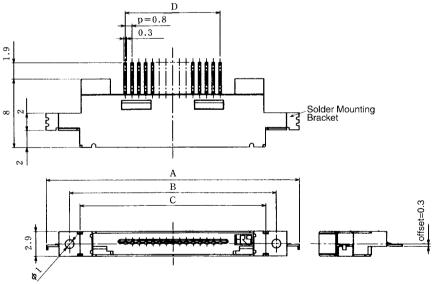


Unit: mm

Product No.	HRS No.	Number of contacts	А	В	С	D
NX60TA- 9SAA9-SP	CL234-0106-5	9	25.2	19.7	17.2	6.4
NX60TB-15SAA9-SP	CL234-0097-6	15	30.0	24.5	22.0	11.2
NX60TA-25SAA9-SP	CL234-0107-8	25	38.0	32.5	30.0	19.2
NX60T -32SAA9-SP	CL234-0023-0	32	43.6	38.1	35.6	24.8

●0.3 mm offset type



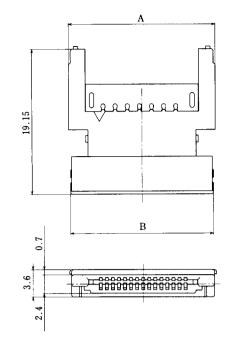


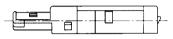
					U	nit: mm
Product No.	HRS No.	Number of contacts	А	В	С	D
NX60TA- 9SAA3-SP	CL234-0031-8	9	25.2	19.7	17.2	6.4
NX60TB-15SAA3-SP	CL234-0098-9	15	30.0	24.5	22.0	11.2
NX60TB-25SAA3-SP	CL234-0033-3	25	38.0	32.5	30.0	19.2
NX60TA-32SAA3-SP	CL234-0053-0	32	43.6	38.1	35.6	24.8



PLUG UNITS

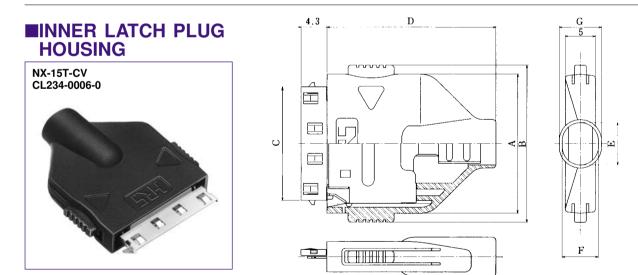






U	nit:	mm

Product No.	HRS No.	Number of contacts	А	В
NX30TA- 9PAA	CL234-0002-0	9	14.6	14.1
NX30TA-15PAA	CL234-0005-8	15	19.4	18.9
NX30TA-25PAA	CL234-0008-6	25	27.4	26.9
NX30TA-32PAA	CL234-0024-2	32	33.0	32.5

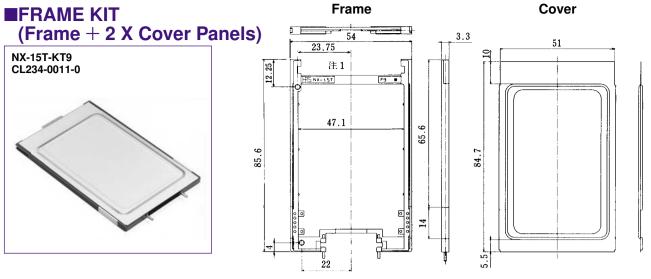


U	r	ηi	t:	I	γ	۱	r	n	۱

-											
	Product No.	HRS No.	Number of contacts	А	В	С	D	Е	F	G	Outer diameter of cable
	NX- 9T-CV	CL234-0003-2	9	18.2	21.2	14.0	26	6.0	5.5	6.5	less than ϕ 5.5
	NX-15T-CV	CL234-0006-0	15	23.0	26.0	18.8	28	7.0	6.0	7.0	less than ϕ 6.0
	NX-15T-CV1	CL234-0017-7	15	23.0	26.0	18.8	28	5.0	4.0	5.0	less than ϕ 4.0
	NX-25T-CV	CL234-0009-9	25	31.0	34.0	26.8	30	8.0	6.5	7.5	less than ϕ 6.5
	NX-25TA-CV1	CL234-0039-0	25	31.0	34.0	26.8	32	13.0	4.0	5.0	less than ϕ 6.5(Note)
	NX-32TA-CV1	CL234-0025-5	32	36.6	40.6	32.4	32	16.2	4.2	5.0	less than ϕ 7.5(Note)

Note: Designed for flat cable use. when round cable is used, clamp portion shall be made flat, adjusting exclusive use bushing.

B12 IRS

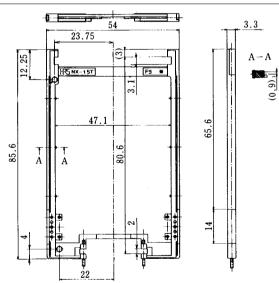


Unit: mm

Product No.	HRS No.	Number of contacts	Connectors for the	1)	Back Connector		
FIOUUCI NO.		Number of contacts	Product No.	HRS No.	Offset	Dack Connector	
NX- 9T-KT9	CL234-0010-8	9				NX60TA- 9SAA9-SP	
NX-15T-KT9	CL234-0011-0	15		CL640-0040-3	D-1.27SFA CL640-0040-3	0.9mm	NX60TB-15SAA9-SP
NX-25T-KT9	CL234-0012-3	25	1017-00ND-1.2/3FA			02040-0040-3	0.91111
NX-32T-KT9	CL234-0026-8	32				NX60T -32SAA9-SP	
NX- 9T-KT3	CL234-0034-6	9				NX60TA- 9SAA3-SP	
NX-15T-KT3	CL234-0035-9	15	IC1F-68RD-1.27SF	CL640-0035-3	0.3mm	NX60TB-15SAA3-SP	
NX-25T-KT3	CL234-0036-1	25	1011-00ND-1.2/3F	01040-0035-3	0.31111	NX60TA-25SAA3-SP	
NX-32T-KT3	CL234-0054-3	32				NX60TA-32SAA3-SP	

FRAME ONLY



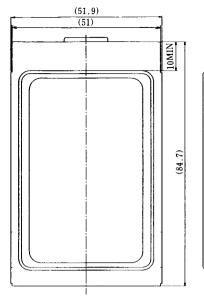


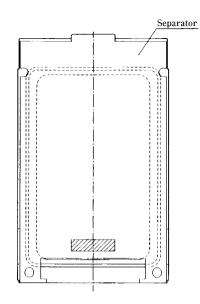
		22				Unit: mm
Product No. HRS No.	Number of contacts	Connectors for the card Side	Back Connector	Panel	Coil Spring	Offset
NX- 9T-F9 CL234-0018-0	9		NX60TA- 9SAA9-SP			
NX-15T-F9 CL234-0019-2	15	IC1F-68RD-1.27SFA	NX60TB-15SAA9-SP	NXT-P	NX-CSA	0.9mm
NX-25T-F9 CL234-0020-1	25	1017-00RD-1.2/3FA	NX60TA-25SAA9-SP		NA-CSA	0.9000
NX-32T-F9 CL234-0063-4	32		NX60T -32SAA9-SP	NX-32T-P		
NX- 9T-F3 CL234-0060-6	9		NX60TA- 9SAA3-SP		NX-CSA	
NX-15T-F3 CL234-0061-9	15	IC1F-68RD-1.27SF	NX60TB-15SAA3-SP	NXT-P		0.3mm
NX-25T-F3 CL234-0062-1	25	101F-00ND-1.2/3F	NX60TB-25SAA3-SP		& NX-CSB	0.311111
NX-32T-F3 CL234-0067-5	32		NX60TA-32SAA3-SP	NX-32T-P	INX-CSD	



■COVER (FOR TYPE I PCMCIA CARDS)





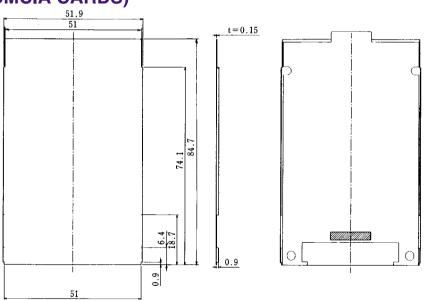


Unit: mm

Product No.	HRS No.	Number of Frame contacts	Panel Finish
NXT-P	CL234-0058-4	0 15 05	Silver matt finish
NXT-P(05)	CL234-0058-4-05	9, 15, 25	Dull processing material
NX-32T-P	CL234-0059-7	32	Silver matt finish
NX-32T-P(05)	CL234-0059-7-05	52	Dull processing material

COVER (FOR TYPE I PCMCIA CARDS)





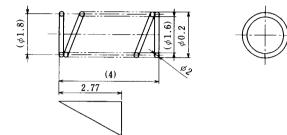
Product No.	HRS No.	Number of Frame contacts	Panel Finish
NXT-PA	CL234-2011-1	0 15 05	Silver matt finish
NXT-PA(05)	CL234-2011-1-05	9, 15, 25	Dull processing material
NX-32T-PA	CL234-0068-8	20	Silver matt finish
NX-32T-PA(05)	CL234-0068-8-05	32	Dull processing material

Panels are avilable in two types: a 32-contact special type and a common type with 9, 15, or 25 contacts.
Ordering volume for panels is one panel per unit volume. One frame corresponds to 2 panels.

B14 IRS

■GROUND CONTACT SPRING



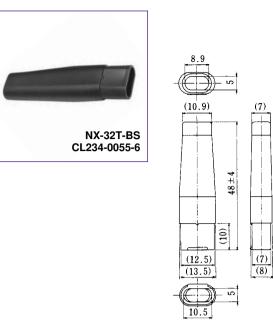


Product No.	HRS No.	Offset: Ordering Volume
NX-CSA	CL234-0042-4	0.3mm: One Pack 0.9mm: Two Packs
NX-CSB	CL234-0043-7	0.3mm: Two Packs

Sold in package of 1000 pcs.

For 1,000 frames of 0.9 offset, please order two packs of NX-CSA. For 1,000 frames of 0.3 offset, please order one pack of NX-CSA and one pack of NX-CSB.

BUSHING



Product No.	HRS No.	Number of contacts
NX-25T-BS	CL234-0074-0	25
NX-32T-BS	CL234-0055-6	32

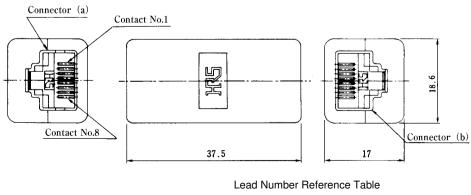
Applications for Connections of I/O Card Connectors MODULAR PLUGS FOR ROUND CABLE (AWG #28) CONNECTOR



■8-CONTACT ADAPTER



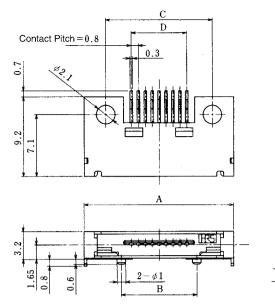
No. of contracto	Modula	ar Plug	Manual W	/iring Tool
No. of contacts	Product No.	HRS No.	Product No.	HRS No.
6	TM30P-66P	CL222-2684-2	TC1-TM30P-66P	CL250-0145-6
8	TM30P-88P	CL222-2685-5	TC1-TM30P-88P	CL250-0146-9

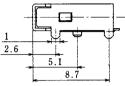


Connector (a) Contact number TM5RL-88	4	0	0	4	F	0	7	0
Connector (a) Contact number TMSRL-88	I	2	3	4	Э	б	1	8
Connector (b) Contact number TM5RL-88	1	2	3	4	5	6	7	8

■RECEPTACLES FOR USE WITH EQUIPMENT INTERFACES





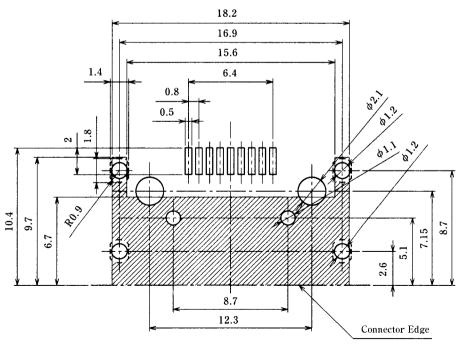


Unit: mm

Product No.	HRS No.	Number of contacts	А	В	С	D
NX60T- 9SAA-SH	CL234-0040-9	9	17.2	8.7	12.3	6.4
NX60T-25SAA-SH	CL234-0027-0	25	30.0	21.5	25.1	19.2
NX60T-15S-SH	CL234-0046-5	15	22.0	13.5	17.1	11.2

Recommended Land Dimmensions

Product No.	HRS No.	Number of contacts	А	В	С	D	E	F
NX60T- 9SAA-SH	CL234-0040-9	9	6.4	12.3	16.9	8.7	15.6	18.2
NX60T-25SAA-SH	CL234-0027-0	25	19.2	25.1	29.7	21.5	28.4	31.0
NX60T-15S-SH	CL234-0046-5	15	11.2	17.1	21.7	13.5	20.4	23.0



Note 1: Unless otherwise noted, the dimension tolerance should be kept to \pm 0.1 or less. Note 2: The diameter of screw head should be less than 3.5 mm when the connector is fixed. Unit: mm



Plug Termination Sequence

Fixtures



Cable wiring cradle NX/3230-CAT CL902-0250-4



Cutting and IDC termination Fixture main unit NX/3230-HP CL902-0252-0



Cutting and IDC termination attachment fixtures NX30TA-9GP CL902-0253-2 NX30TA-15GP CL902-0254-5 NX30TA-25GP CL902-0255-8 NX30TA-32GP CL902-0257-3

•Wiring Sequence



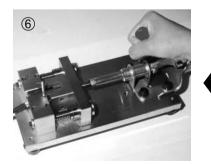
1. Set the wires in the wiring fixtures.



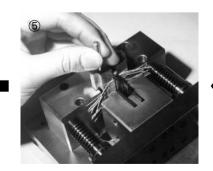
2. Align holding plates (A) and (B).



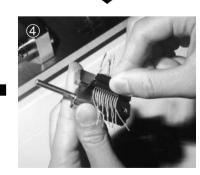
 Arrange the wires one at a time through holding plates (A) and (B).



4. Set holding plates (A) and (B) onto the guide plate.



5. Insert the guide plate into the pressure welding and cutting fixtures.



6. Pull down the handle. The wiring and cutting of excess cable length are completed.



Frame Kit Fixture



Ground spring press fitting fixture

Special blocks

A frame kit thermal fixture and a cooling fixture are also available.

Wiring Fixture and Accessories List

Plug

			Process						
Cable	Connector	Wiring	Pressurs Wel	ding and Cutting	Shield Ca	Shield Case Caulking			
		vviring	Press	Guide Plate	Cover Case	Hand Tool	Hood Fitting		
	NX30TA- 9PAA			NX30TA- 9GP	NX- 9T-CV	NX-30TA-9HC			
	NX301A- 9PAA			NASUTA- 9GP	NA- 91-0V	CL902-0260-8	Manual Work		
					NX-15T-CV NX-15T-CV1	NX-30TA-15HC			
I/O Cable	NX30TA-15PAA	NX/3230-CAT		NX30TA-15GP		CL902-0261-0			
Discrete cable		(All contacts	NX/3230-HP			NX-30TA-15HC1			
		common)				CL902-0262-3	-		
	NX30TA-25PAA		,	NX30TA-25GP	NX-25T-CV	NX-30TA-25HC1 CL902-0263-6			
	NX30TA-32PAA			NX30TA-32GP	NX-32T-CV1	Screw Fixing			

Note 1: The caulking height of hand tool is defined by follwing cable specifications.

Note 2: Caulking specification change is needed when special cable is used.

Cover Case	Cable Diameter	Strand Termination
NX-9T-CV	φ 5.1±0.2	Fold the shield and bind 1.5 times with copper tape.
NX-15T-CV	φ 5.7±0.2	Do,
NX-25T-CV	∮ 6.5±0.2	Do,
NX-15T-CV1	∮ 3.8±0.2	Crimp with cable sheath directly.

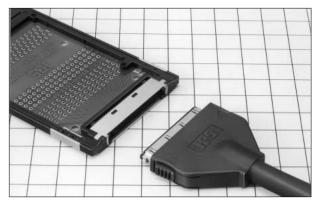
Frame Kit

		Process							
Frame Kit	Spring Pin Press Fitting		Panel Thermal	Panel Cooling					
	Press	Unit	Caulking	Panel Cooling					
		NX-SPT-9							
NX-9T-KT(9•3)		CL902-0275-5							
NX 16T K(0-2)		NX-SPT-15							
NX-15T-K(9•3)	NX-SPT	CL902-0276-8	NX-PHT	NX-PCT					
	CL902-0274-2	NX-SPT-25	CL902-0282-0	CL902-0283-3					
NX-25T-K(9•3)		CL902-0277-0							
		NX-SPT-32]						
NX-32T-KT(9•3)		CL902-0278-3							



Back Connectors for Type II I/O Cards

NX Series 68



Features

1. Low profile

Receptacle connectors have a mounting height of 3.5 mm and can be mounted to type II I/O cards.

2. Shielded construction

A metal shell is used for shielding.

3. ESD protection

The use of an over-mold cover offers excellent ESD protection.

4. More efficient wiring work

Wiring on the plug side uses AWG #30 pressure welding (discrete type) for more efficient wiring work.

Applications

I/O card interfaces.

Suitable Cable

	I/O Cable
Conductor size	AWG #30 (7/0.1)
Insulator outer diameter	0.5mm
Cable style	UL20276

Performance

Item	Requirements	Test Conditions
1. Rated current	0.5A	per pin
2. Rated voltage	125 V AC	per pin
3. Insulation resistance	250 MΩ or more	Measured at 100 V DC
4. Voltage proof	300 V AC	Conduction for one minute. No flashover or breakdown.
5. Contact resistance	40 mΩ or more	Measured at 100 mA
6. Mechanical operation	3000 times	Contact resistance of 60 $m\Omega$ or less

Materials and Processing

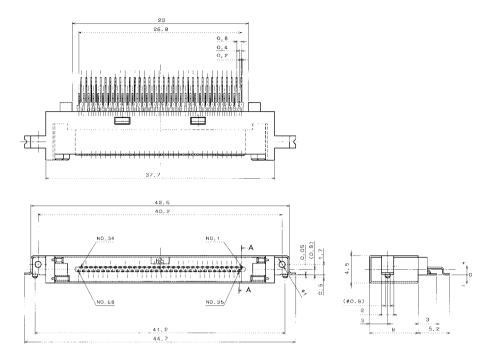
Item		Material	Color/Finish	Notes	
	Insulator	Synthetic resin	Black	UL94V-0	
Receptacle connector	Contacts	Copper alloy	Partial gold plating		
	Shell	Stainless steel	Solder plating		
Dhua unit	Insulator	Synthetic resin	Black	UL94V-0	
Plug unit	Contacts	tacts Copper alloy Partial			
	Cover case	Synthetic resin	Black	UL94V-0	
Plug cover	Shell	Stainless steel			
	Frame	Synthetic resin	Black	UL94V-0	
	FG terminal	Phosphor bronze	Gold plating		
Frame kit	Spring pin	Stainless steel			
	Coil spring	Stainless steel			
	Panel	Stainless steel	With thermal adhesive tape		

NX	60	Н-	68	S	9	- SP
●Plug u	2 nit	0	4	6	6	0
NX	30	Н-	68	Ρ		
●Plug c	e ver	8	4	6		
NX	- 68	8 H	- C	V:		
● Frame	kit	8		8		
NX	- 68	8 H	- K	T	9	(05)
1	4	3		3	6	9

1	Series name	:NX
2	Wiring style	30: Loose lead pressure welding type (for fine wire)
		60: SMT type
3	Serial symbo	l for form
4	Number of co	ontacts: 68
6	Type of open	ing S: Receptacle
		P: Plug
6	Coplanarity:	0.9 (Dimension from connector center to board mounting position)
0	Variations S	P: Spring pin (for cards)
8	Type of acce	ssories CV: Vertical opening cover case
		KT: Frame kit
9	Panel finish (05): Matt processing



Receptacle Connector



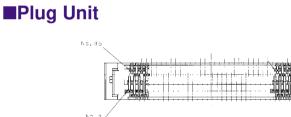
Note 1: The signal pin SMT dimension of this product is 0^{+0.1}/_{-0.05}. Note 2: Caulking specification change is needed when special cable is used.

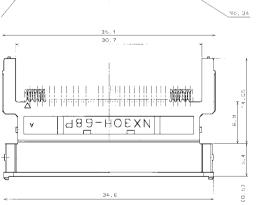
Product number	HRS No.
NX60H-68S9-SP	CL234-0078-1

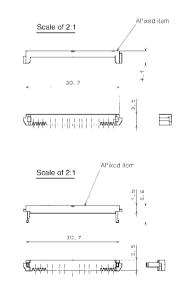
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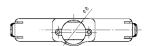


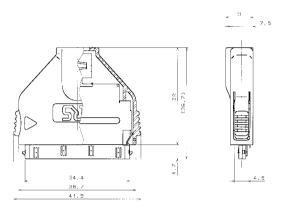


Product number	HRS No.		
NX30H-68P	CL234-0079-4		



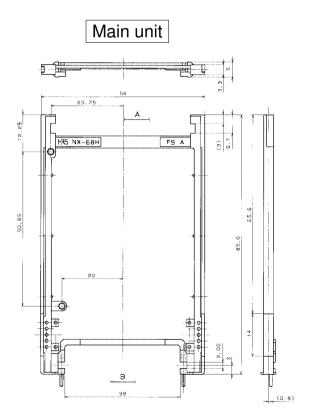


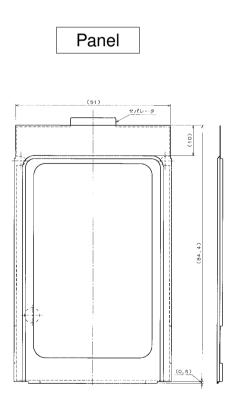




Product number	HRS No.			
NX-68H-CV	CL234-0080-3			

Frame Kit



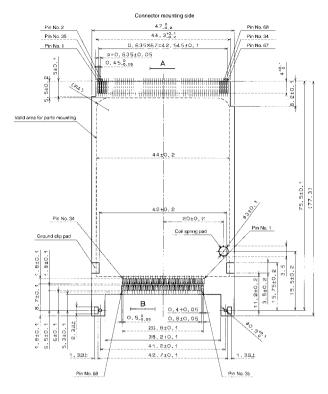


Note 1: Suitable connectors for portion A are IC1F-68RD-1.27SFA. Suitable connectors for portion B are NX60H-68S9-SP.

Product number	HRS No.		
NX-68H-KT9(05)	CL234-0081-6-05		

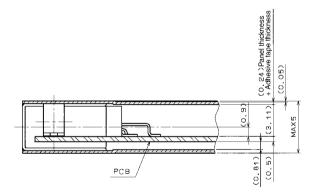


Recommended Board Dimensions (Suitable Board Thickness: 0.5 mm MAX)



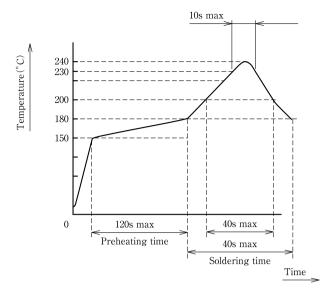
Note 1: Suitable connectors for portion A are IC1F-68RD-1.27SFA. Suitable connectors for portion B are NX60H-68S9-SP.

Connector Mounting Dimensions





Recommended Solder Temperature Profile



•	Applicable conditions						
	Reflow method	: IR reflow					
	Solder type	:Cream type 63 Sn/37 Pb					
	(Flux component of 9 wt%)						
	Test substrate : Glass epoxy 47 X 77.3 X 0.5 mm						
	Metal mask thickness : 0.15 mm						
•	Conditions may change and are dependent on type and						

 Conditions may change and are dependent on type and thickness of Solder.

