



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical drawing of a 48-pin connector (Type F) showing contact arrangement, dimensions, and assembly details.

Legend:

- ☒ = Kontaktposition belegt / position with contact
- ☐ = Kontaktposition nicht belegt / position without contact

Dimensions (mm):

- Overall length: 100,85 ± 0,15
- Length of contact area: 94 ± 0,1
- Length of mounting tabs: 14,75 ± 0,05
- Width: 22 ± 0,5
- Pin pitch: 2,54 (10 pins), 2,54 (10 pins)
- Pin diameter: Ø 2,85 ± 0,05
- Pin length: 27,78 ± 0,33
- Mounting tab thickness: 4,35 ± 0,05
- Mounting tab width: 10,3 ± 0,1
- Mounting tab height: 14,75 ± 0,05
- Pin spacing (row 1): 5,08
- Pin spacing (row 2): 1,27
- Pin spacing (row 3): 3,81
- Pin spacing (row 4): 5,08
- Pin spacing (row 5): 5,08
- Pin spacing (row 6): 5,08
- Pin spacing (row 7): 5,08
- Pin spacing (row 8): 5,08
- Pin spacing (row 9): 5,08
- Pin spacing (row 10): 5,08
- Pin spacing (row 11): 5,08
- Pin spacing (row 12): 5,08
- Pin spacing (row 13): 5,08
- Pin spacing (row 14): 5,08
- Pin spacing (row 15): 5,08
- Pin spacing (row 16): 5,08
- Pin spacing (row 17): 5,08
- Pin spacing (row 18): 5,08
- Pin spacing (row 19): 5,08
- Pin spacing (row 20): 5,08
- Pin spacing (row 21): 5,08
- Pin spacing (row 22): 5,08
- Pin spacing (row 23): 5,08
- Pin spacing (row 24): 5,08
- Pin spacing (row 25): 5,08
- Pin spacing (row 26): 5,08
- Pin spacing (row 27): 5,08
- Pin spacing (row 28): 5,08
- Pin spacing (row 29): 5,08
- Pin spacing (row 30): 5,08
- Pin spacing (row 31): 5,08
- Pin spacing (row 32): 5,08

Assembly Details:

- Zylinderschraube M2,5x22 wird lose mitgeliefert (cheese-head screw M2,5x22 is supplied)
- Reihe 1 (row 1) is the top row of pins.
- Reihe 2 (row 2) is the bottom row of pins.
- Reihe 3 (row 3) is the middle row of pins.
- Reihe 4 (row 4) is the bottom row of pins.
- Reihe 5 (row 5) is the middle row of pins.
- Reihe 6 (row 6) is the top row of pins.
- Reihe 7 (row 7) is the bottom row of pins.
- Reihe 8 (row 8) is the middle row of pins.
- Reihe 9 (row 9) is the top row of pins.
- Reihe 10 (row 10) is the bottom row of pins.
- Reihe 11 (row 11) is the middle row of pins.
- Reihe 12 (row 12) is the top row of pins.
- Reihe 13 (row 13) is the bottom row of pins.
- Reihe 14 (row 14) is the middle row of pins.
- Reihe 15 (row 15) is the top row of pins.
- Reihe 16 (row 16) is the bottom row of pins.
- Reihe 17 (row 17) is the middle row of pins.
- Reihe 18 (row 18) is the top row of pins.
- Reihe 19 (row 19) is the bottom row of pins.
- Reihe 20 (row 20) is the middle row of pins.
- Reihe 21 (row 21) is the top row of pins.
- Reihe 22 (row 22) is the bottom row of pins.
- Reihe 23 (row 23) is the middle row of pins.
- Reihe 24 (row 24) is the top row of pins.
- Reihe 25 (row 25) is the bottom row of pins.
- Reihe 26 (row 26) is the middle row of pins.
- Reihe 27 (row 27) is the top row of pins.
- Reihe 28 (row 28) is the bottom row of pins.
- Reihe 29 (row 29) is the middle row of pins.
- Reihe 30 (row 30) is the top row of pins.
- Reihe 31 (row 31) is the bottom row of pins.
- Reihe 32 (row 32) is the middle row of pins.

Table 1: Order and Performance Data



Bestell-Nr. part-no.	Anforderungsstufe nach IEC performance level acc.to IEC	Kontaktoberfläche contact plating
09 06 048 2903	1	Au über/over Ni

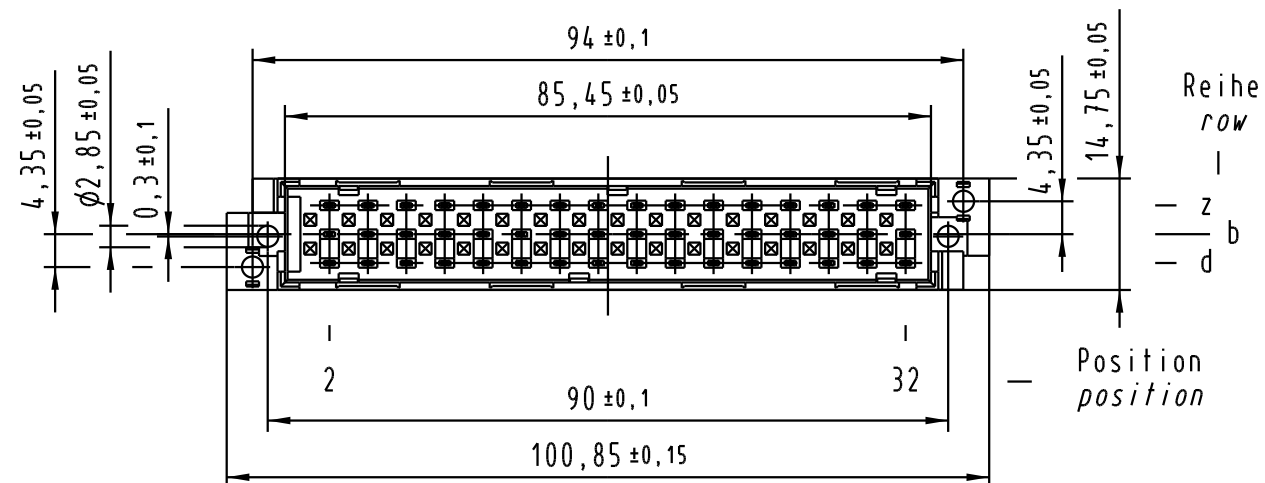
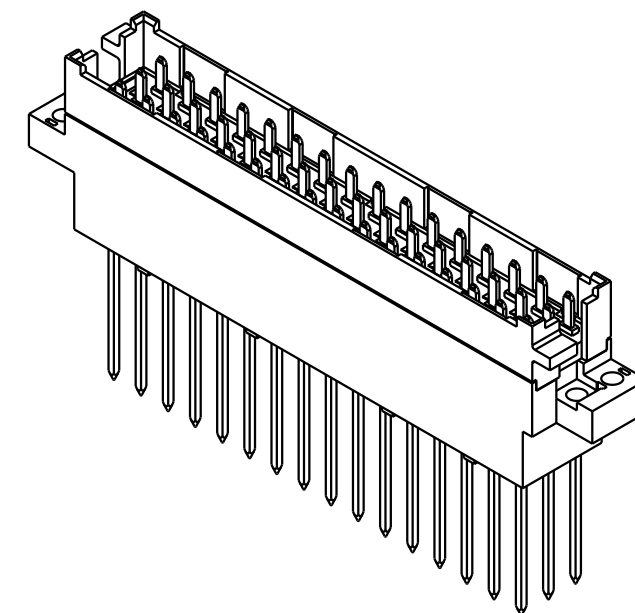
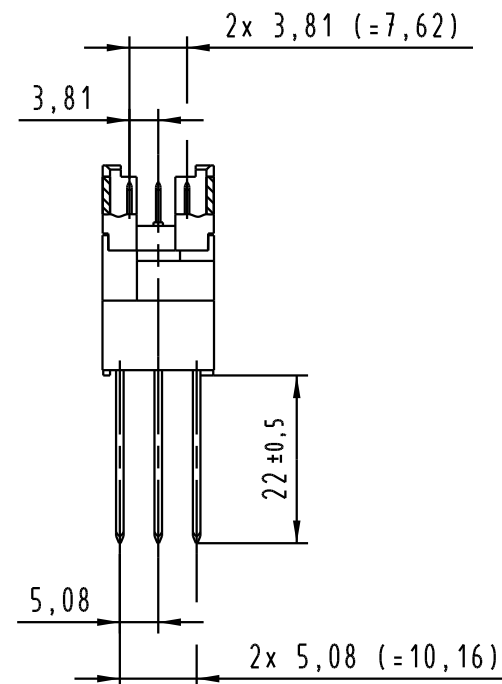
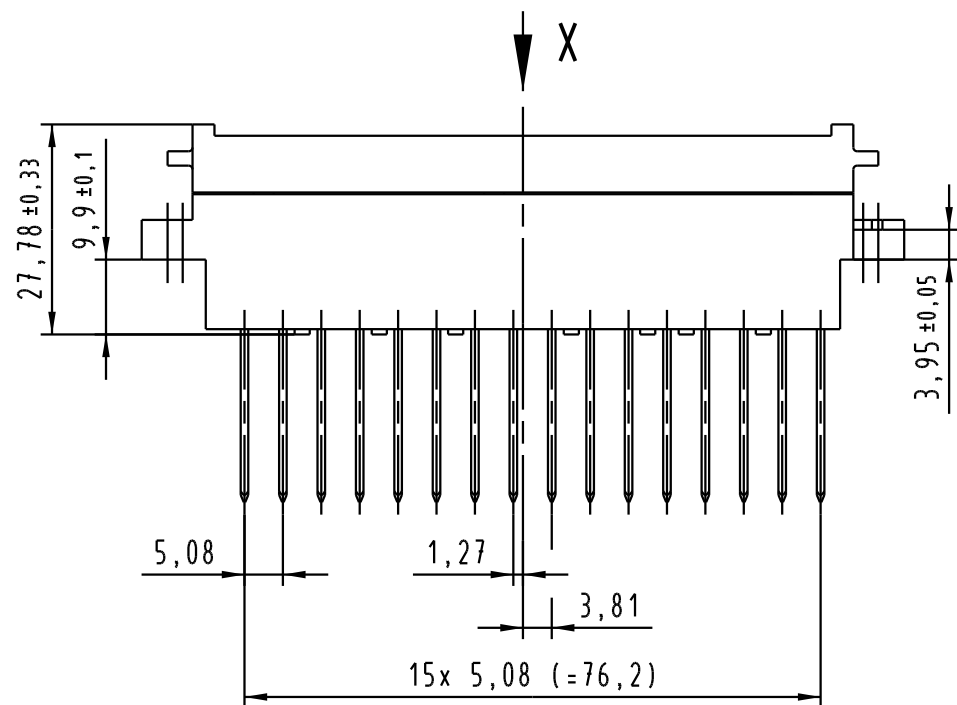
Table 2: Technical Characteristic

Techn. Character.	IEC 60603-2	Nicht tolerierte Maß / Free size tolerances	IEC 60603-2
Detail.	04.05.06	Bauform F, Übergangselement I	WW, 48 pol.
Insp.	04.05.06	type F, interface connector I	WW, 48 pol.
Stand.			

Table 3: Manufacturer Information



Mod.	Dat.	Name	HARTING	TB 09 06 048 x903	Blatt / page
33509					

 = Kontaktposition belegt
 = *position with contact*
 = Kontaktposition nicht belegt
 = *position without contact*



Zylinderschraube M2,5x22 wird lose mitgeliefert
cheese-head screw M2,5x22 is supplied

-	-	-
09 06 048 <u>2903</u>	1	Au über/over Ni
Bestell-Nr. <i>part-no.</i>	Anforderungsstufe nach IEC <i>performance level acc.to IEC</i>	Kontaktoberfläche <i>contact plating</i>

 All Dimensions in mm Original Size DIN A 3			Techn. Character. IEC 60603-2			Nicht tolerierte Maße/Free size tolerances IEC 60603-2		
				Dat.	Name	Maßstab/Scale 1 : 1	Bauform F, Übergangselement 1 WW, 48 pol. <i>type F, interface connector 1 WW, 48 pol.</i>	
			Detail.	04.05.06	Leh.			
			Insp.	04.05.06	Ge.			
			Stand.					
33509			HARTING Electronics GmbH & Co. KG D-32339 ESPELKAMP				TB 09 06 048 x903	
Mod.	Dat.	Name					Sub.	