

FOR BOARD-TO-BOARD CONNECTION

230 SERIES

■ FEATURES

- 1.27 mm (0.050 in.) pitch contact arrangement in two rows enables high-density mounting.
- Connectors with 34 to 96 contacts are available for various purposes.
- Connectors with 68 contacts comply with SCSI III interface.
- Connectors with 96 contacts comply with S-bus interface.
- Each of the contacts on the female connector are alternately inset for two-step coupling, significantly reducing insertion force.
- Terminals are spaced in a four-row staggered arrangement (2.54 mm × 1.905 mm) (0.100 in. × 0.075 in.) for easy PC board design.
- Insulation is UL-approved (94V-0).



■ SPECIFICATIONS

Item	Specifications				
Operating temperature range	-55°C to +105°C				
Current rating	DC 1A				
Voltage rating	AC 240 V				
Contact resistance	30 mΩ max. (DC 6 V, 0.1 A)				
Insulation resistance	1000 MΩ min. (DC 500 V)				
Dielectric withstand voltage	AC 750 V for 1 minute				
Insertion force [kg max.]	Number of contacts	34	48	68	96
	Force	3.0	4.0	5.5	7.0
Withdrawal force [kg min.]	Number of contacts	34	48	68	96
	Force	0.68	0.96	1.36	1.92
Applicable PC board (standard)	1.6 mm (0.063 in.)				

■ MATERIALS

Item	Materials	
Insulator	Polyester (UL94V-0)	
Conductor	Copper alloy	
Plating	Contact	Gold plating
	Terminal	Palladium plating

ORDERING CODE

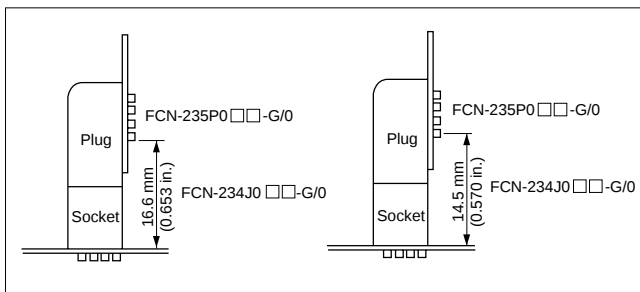
FCN-23 4 P 068-G / 0

- 0: Mold type (standard)
Note: Straight types are also available, including SMT types. See pages 36 and 37.
- Plating
G: Gold plating
- Number of contacts: 34, 48, 68, 96
- Body P: Plug
J: Socket
- Tail type 4: Straight
5: Right-angle
- 230 series connector
- Fujitsu connector

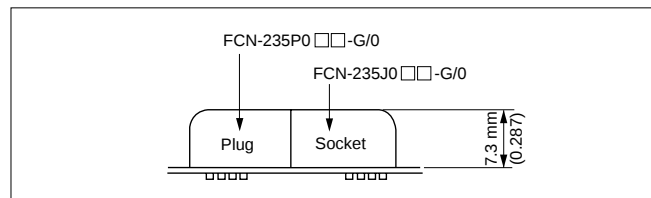
APPLICATIONS

Board-to-board connection

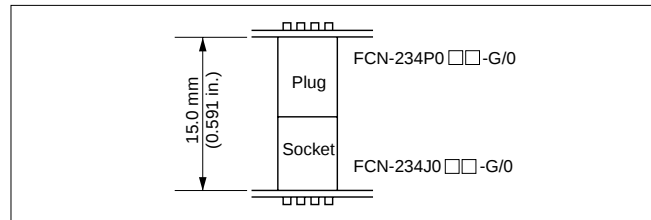
Vertical PCB connection



Horizontal PCB connection



Parallel PCB connection

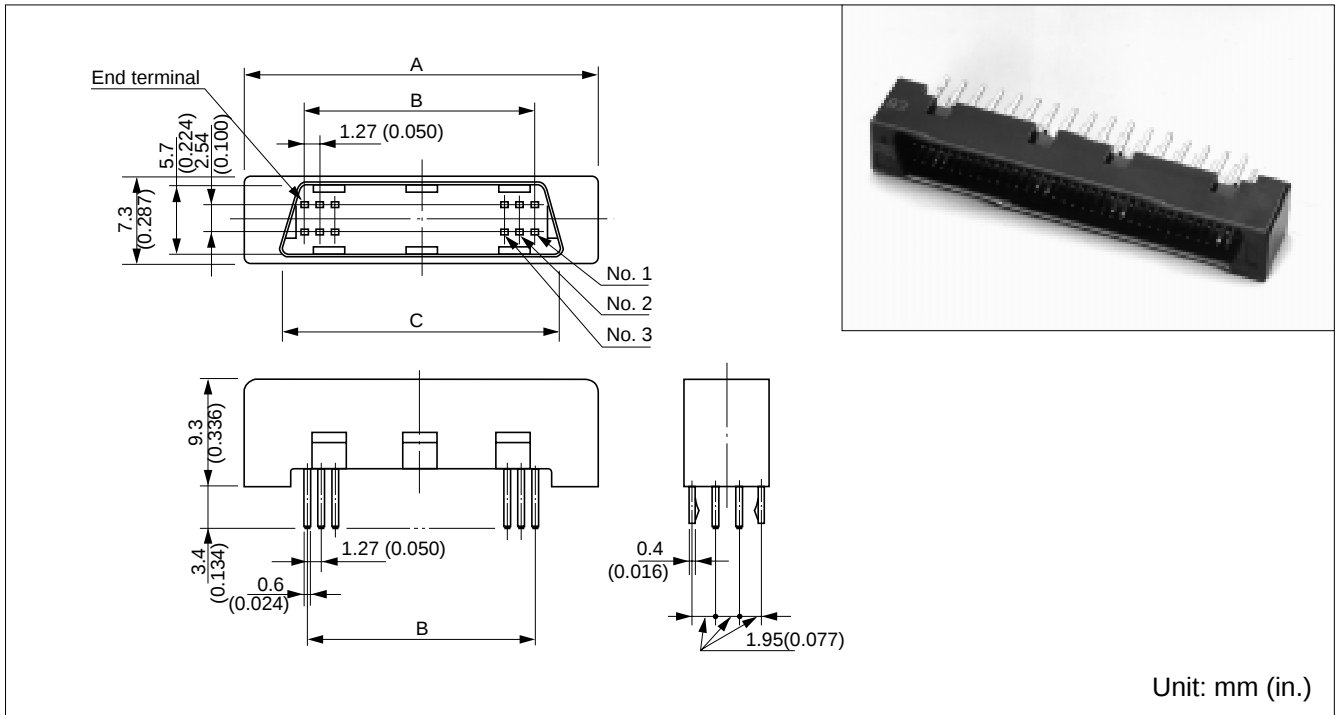


Parallel board connection (for a connector with 96 contacts)

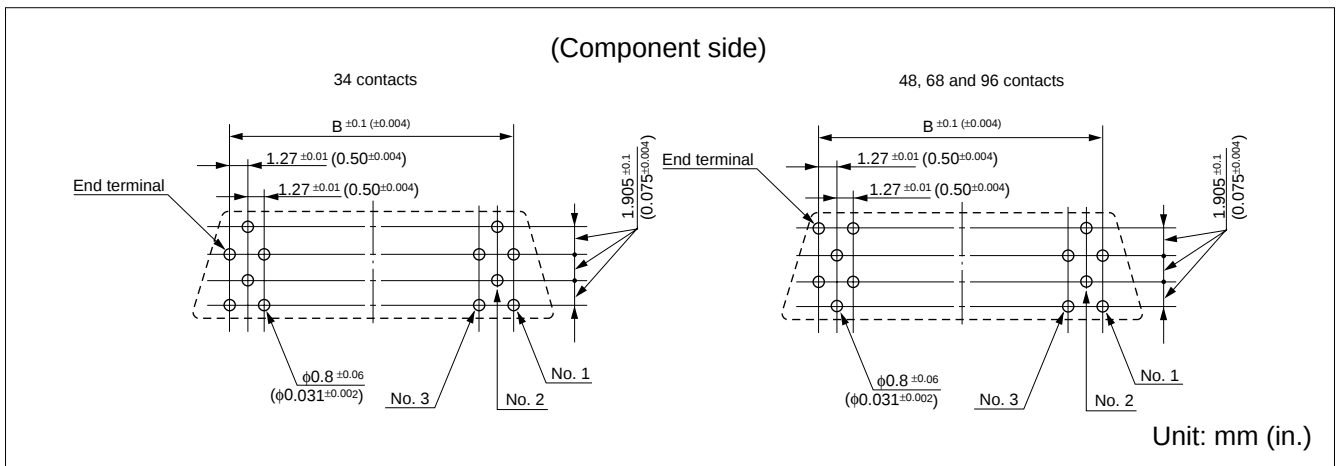
Board interval (mm (in.))		15.0	18.75	39.10
Mounting dimension		15.0 mm (0.591 in.)	18.75 mm (0.738 in.)	39.10 mm (1.539 in.)
Part number	Plug	FCN-234P0XX-G/0	FCN-234P096-G/0 FCN-234P096-G/Y FCN-234P096-G/ZA	FCN-234P096-G/0 FCN-234P096-G/Y FCN-234P096-G/ZA
	Socket	FCN-234J0XX-G/0	FCN-234J096-G/UA FCN-234J096-G/VA FCN-234J096-G/Y	FCN-234J096-G/U1

STRAIGHT PLUG

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

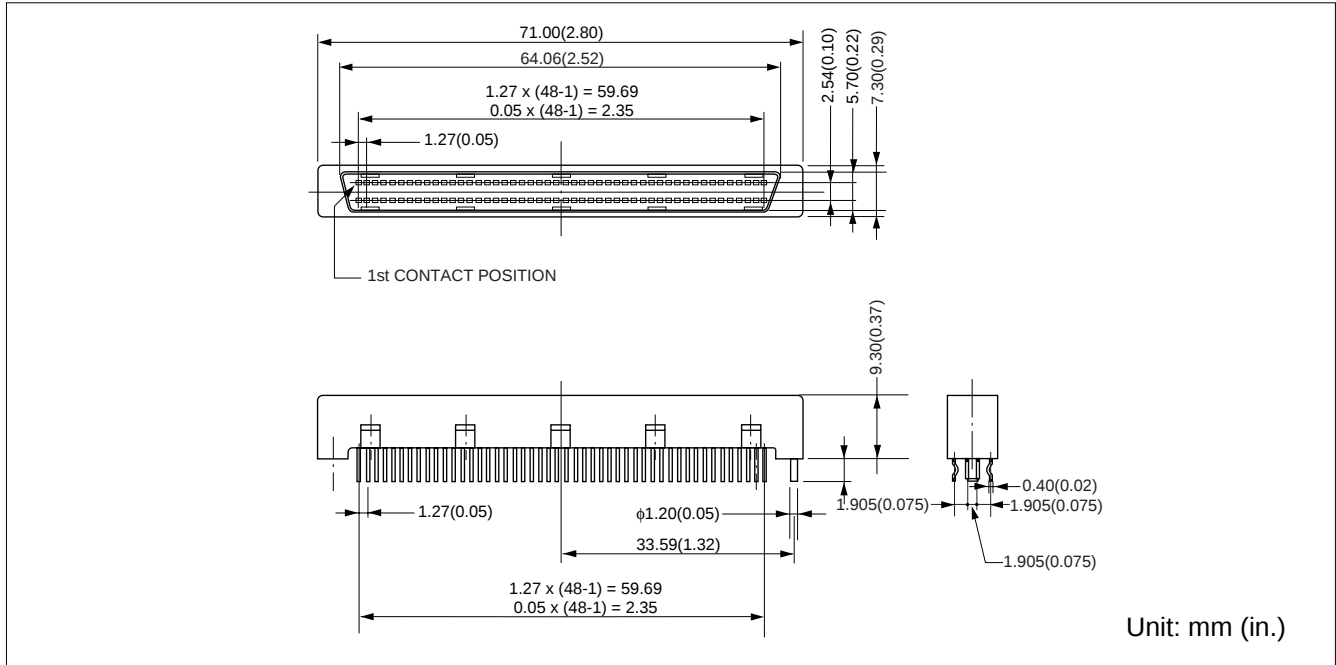


■ PART NUMBERS AND DIMENSIONS

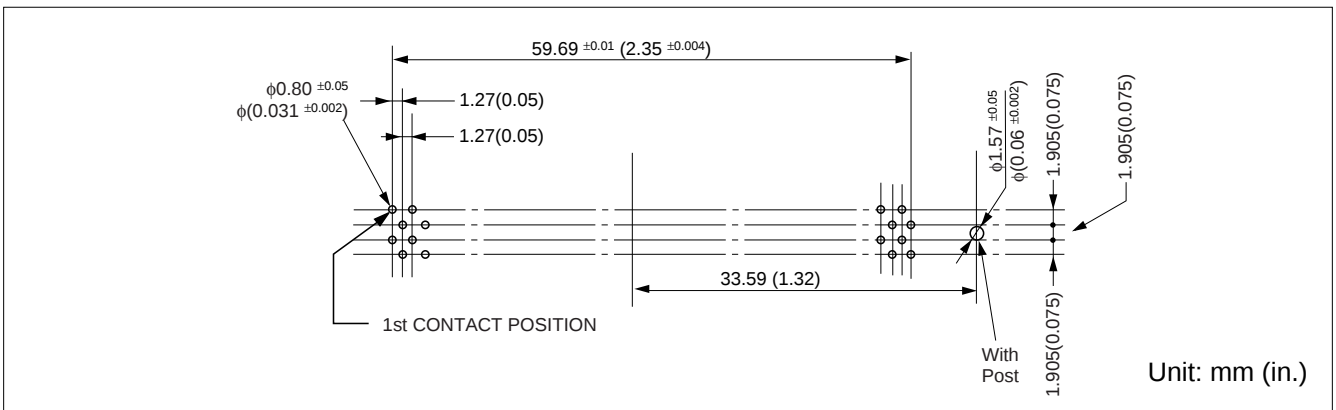
Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
34	FCN-234P034-G/0	31.63 (1.245)	20.32 (0.800)	24.69 (0.800)
48	FCN-234P048-G/0	40.52 (1.595)	29.21 (1.150)	33.58 (1.322)
68	FCN-234P068-G/0	53.22 (2.095)	41.91 (1.650)	46.28 (1.822)
96	FCN-234P096-G/0	71.00 (2.795)	59.69 (2.350)	64.06 (2.522)

FCN-234P096-G/* STRAIGHT PLUG — S-BUS

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

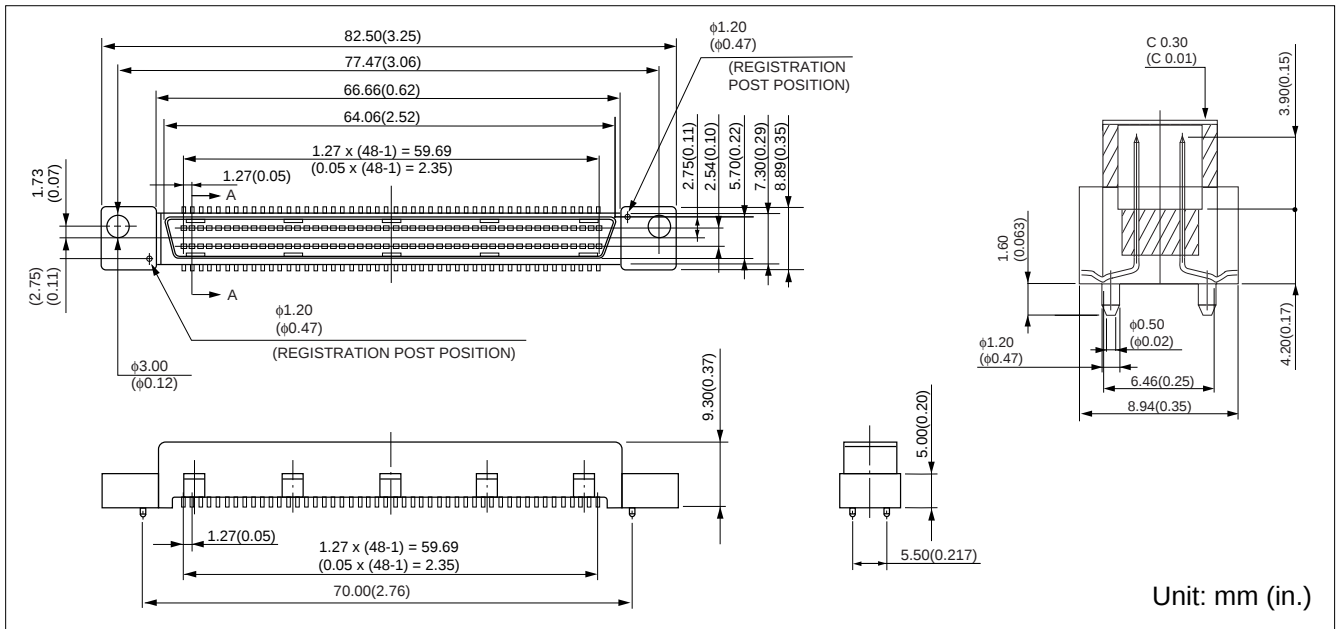


■ PART NUMBERS AND DIMENSIONS

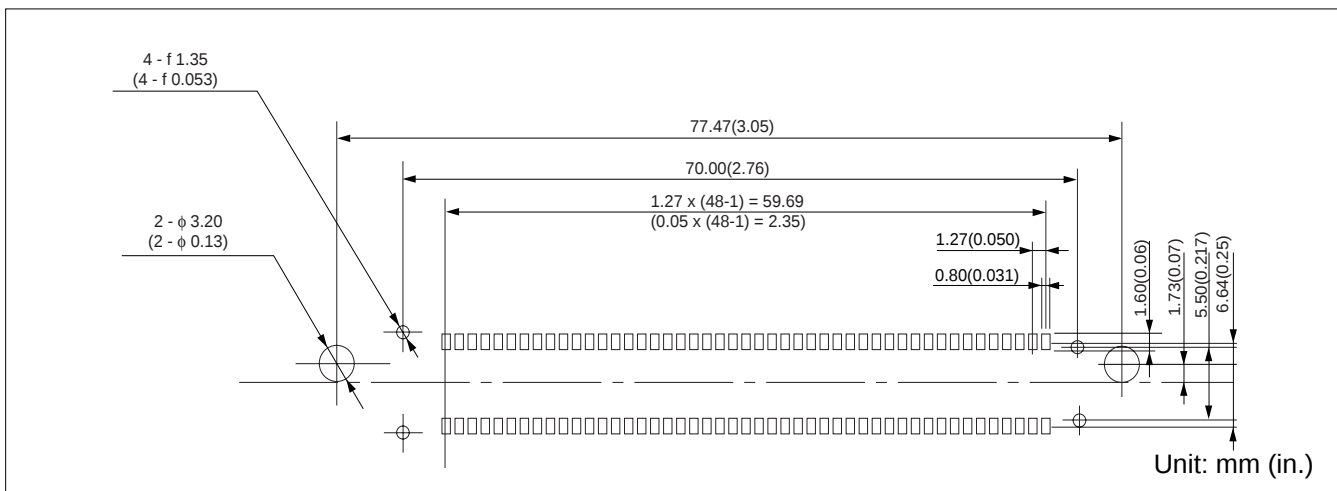
	A Polarization Post	B Lead Length
FCN-234P096-G/0	0	3.4(0.13)
FCN-234P096-G/XA	3.4(0.13)	2.8(0.11)
FCN-234P096-G/Y	4.0(0.16)	3.4(0.13)

FCN-234P096-G/ZA SMT PLUG

■ DIMENSIONS



■ PCB PATTERN LAYOUT

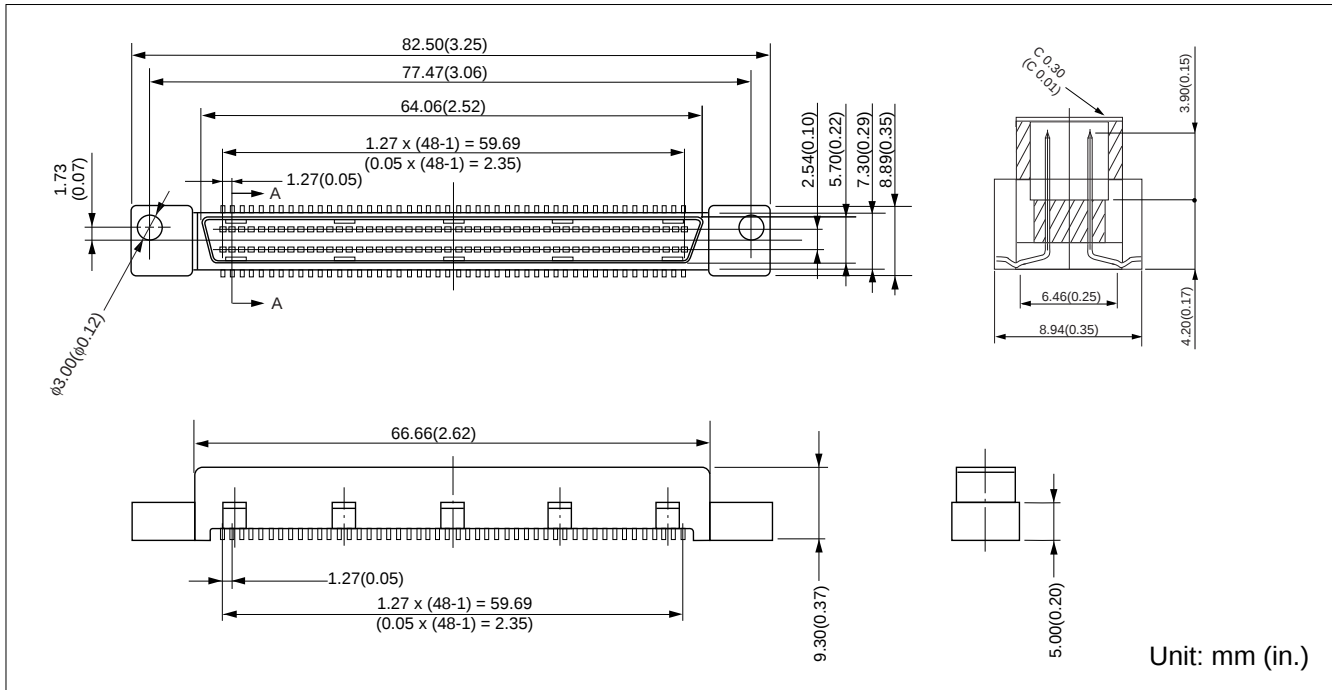


■ **PART NUMBER**

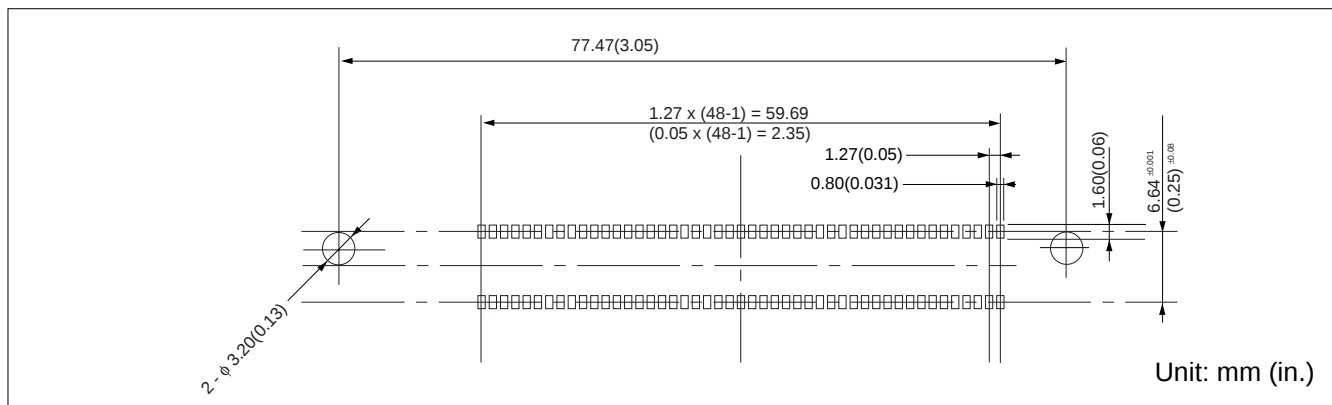
No. of Contacts	Part Number
96	FCN-234P096-G/ZA

FCN-234P096-G/Z SMT PLUG

■ DIMENSIONS



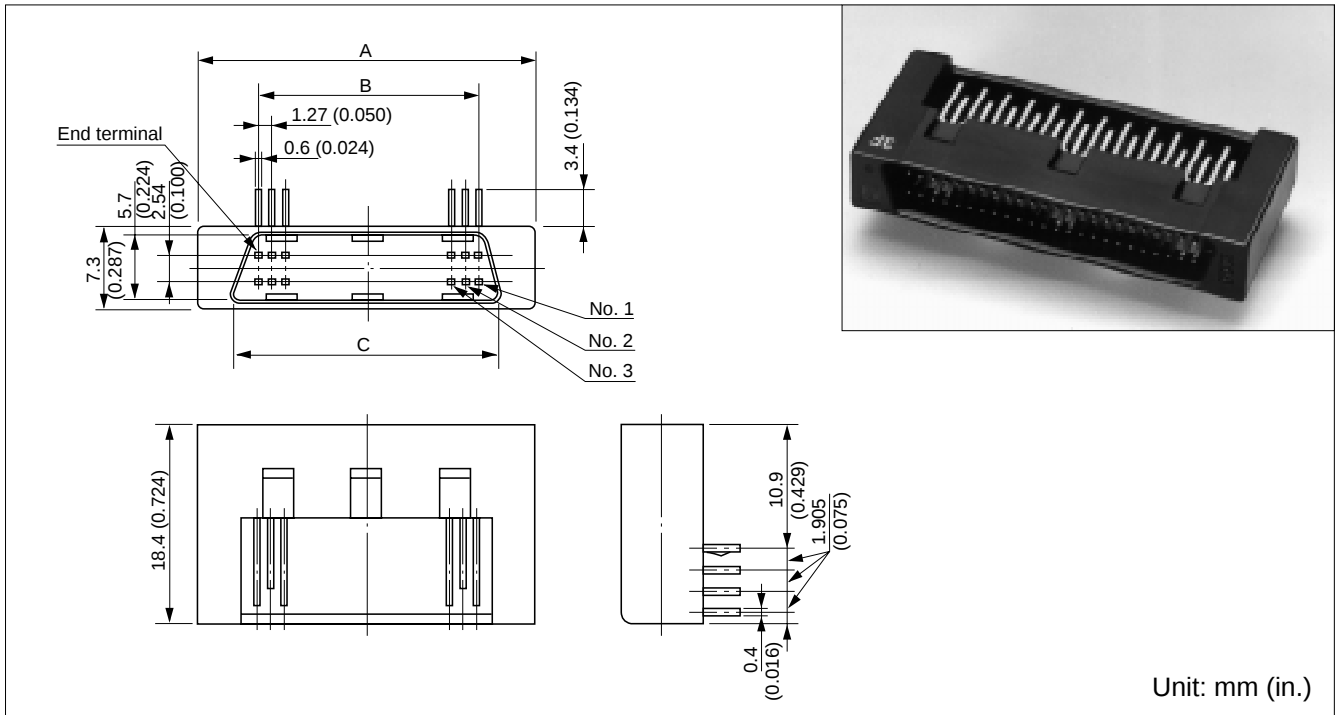
■ PCB PATTERN PATTERN LAYOUT

**■ PART NUMBER**

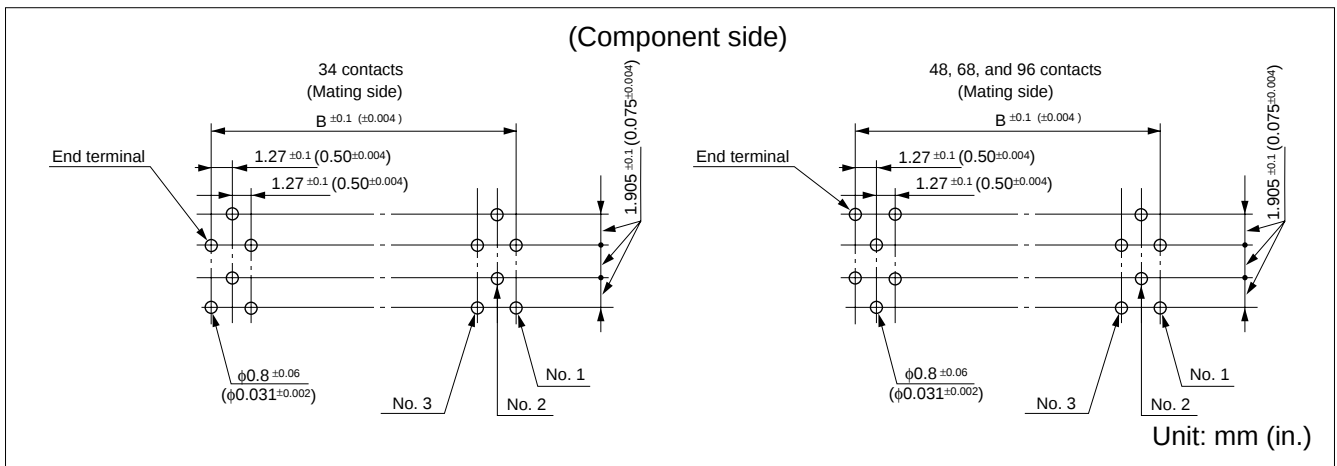
No. of Contacts	Part Number
96	FCN-234P096-G/Z

RIGHT-ANGLE PLUG

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

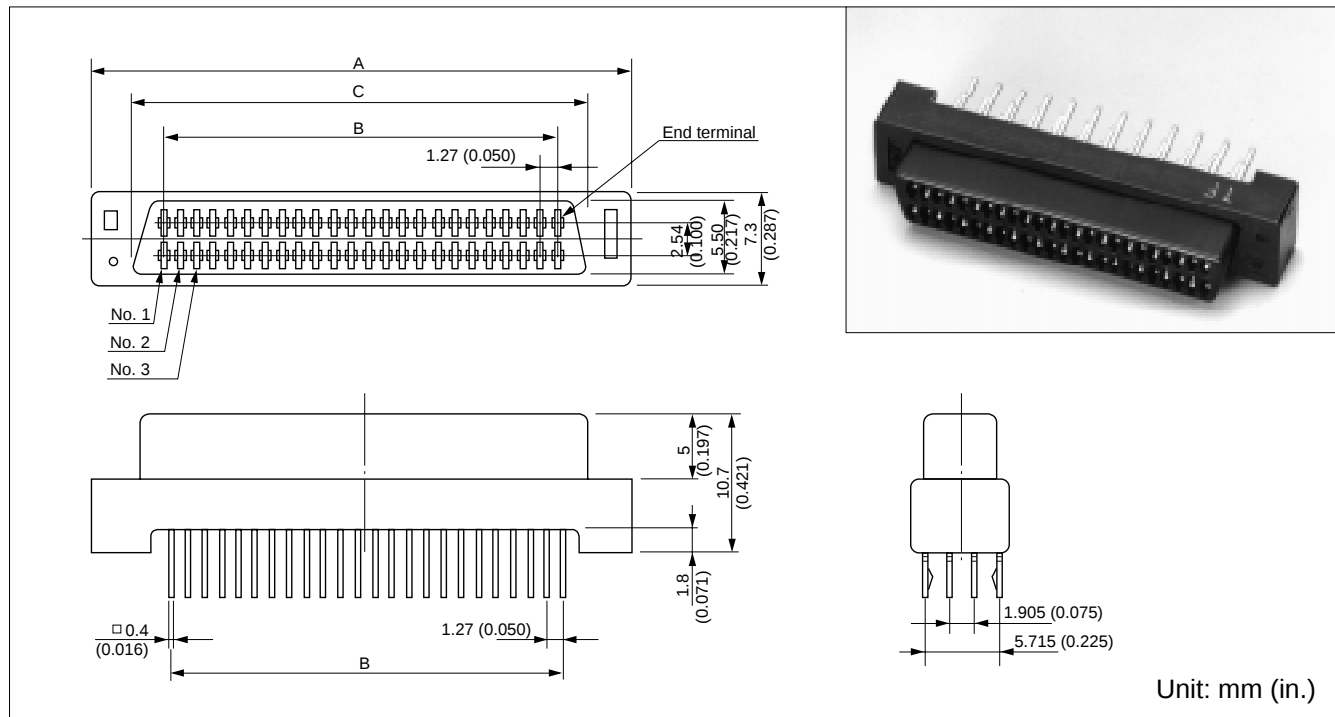


■ PART NUMBERS AND DIMENSIONS

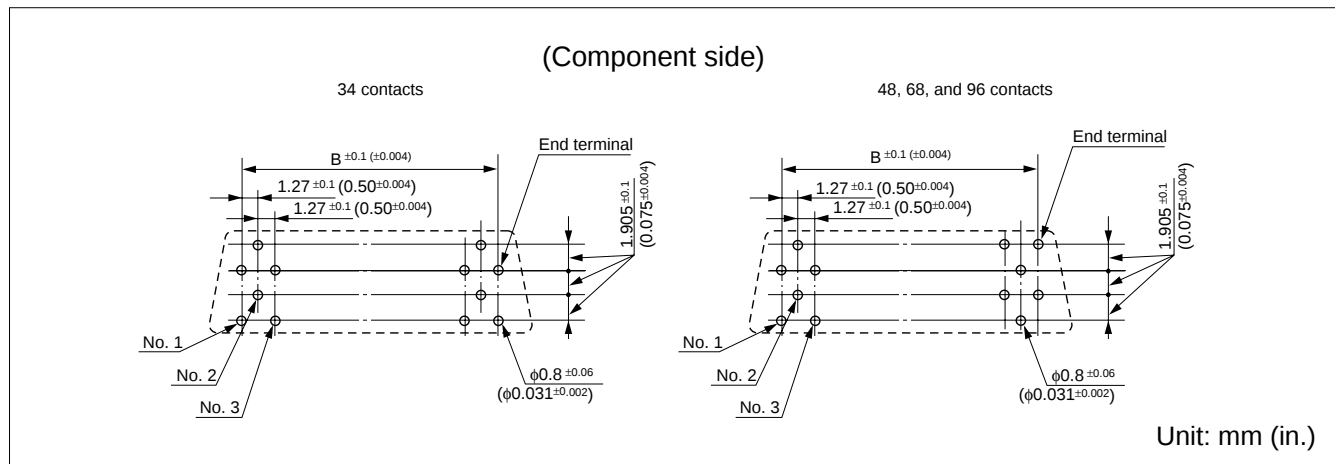
Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
34	FCN-235P034-G/0	31.63 (1.245)	20.32 (0.800)	24.69 (0.800)
48	FCN-235P048-G/0	40.52 (1.595)	29.21 (1.150)	33.58 (1.322)
68	FCN-235P068-G/0	53.22 (2.095)	41.91 (1.650)	46.28 (1.822)
96	FCN-235P096-G/0	71.00 (2.795)	59.69 (2.350)	64.06 (2.522)

STRAIGHT SOCKET

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

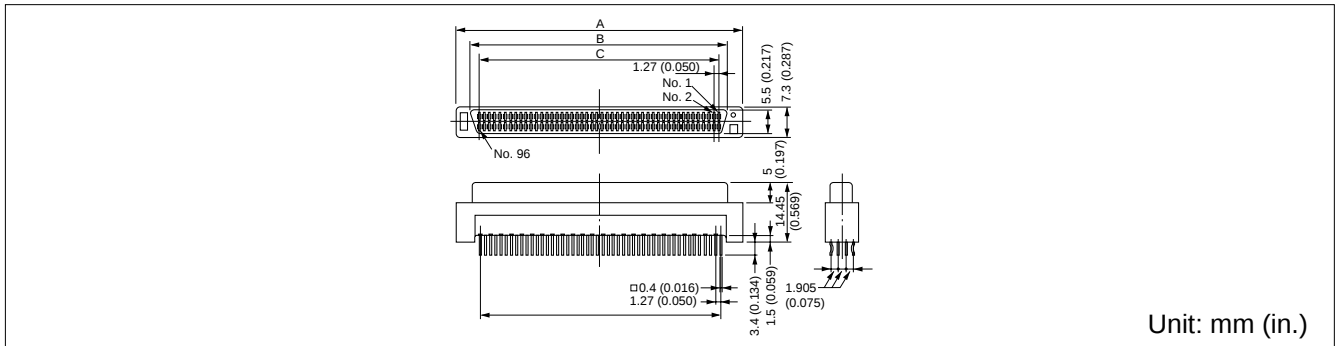


■ PART NUMBERS AND DIMENSIONS

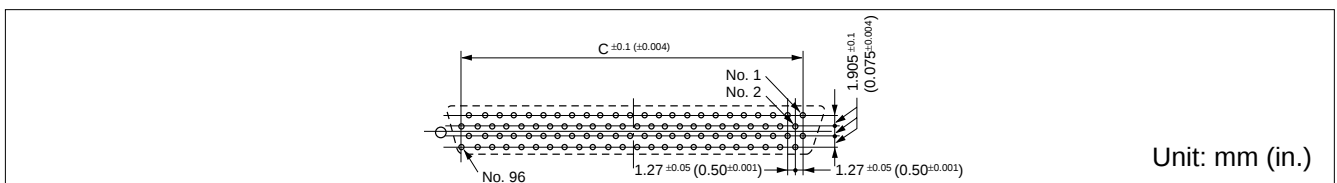
Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
34	FCN-234J034-G/0	31.63 (1.245)	20.32 (0.800)	24.69 (0.800)
48	FCN-234J048-G/0	40.52 (1.595)	29.21 (1.150)	33.38 (1.314)
68	FCN-234J068-G/0	53.22 (2.095)	41.91 (1.650)	46.08 (1.814)
96	FCN-234J096-G/0	71.00 (2.795)	59.69 (2.350)	63.86 (2.514)

STRAIGHT SOCKET (RAISED MOUNTING TYPE) - STACK HEIGHT 18.75mm

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

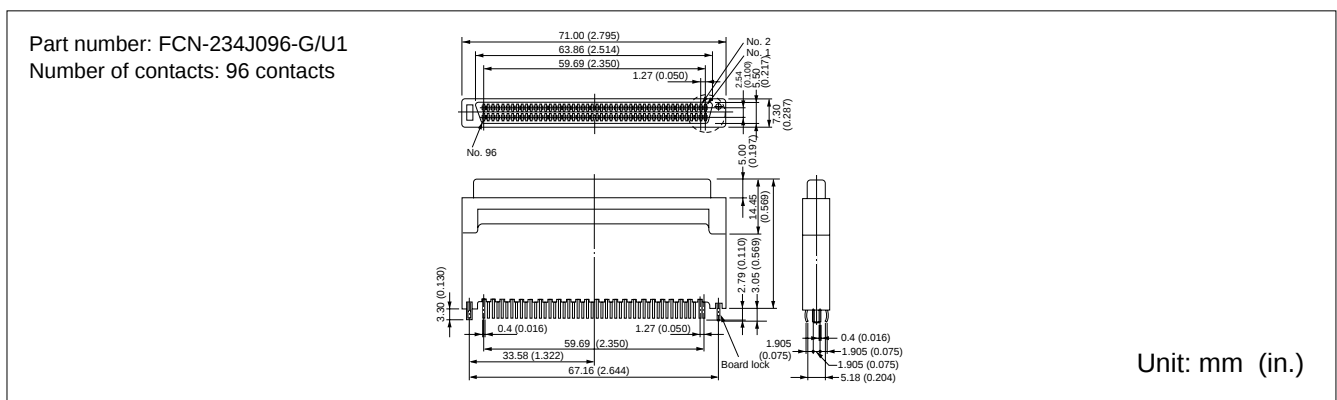


■ PART NUMBERS AND DIMENSIONS

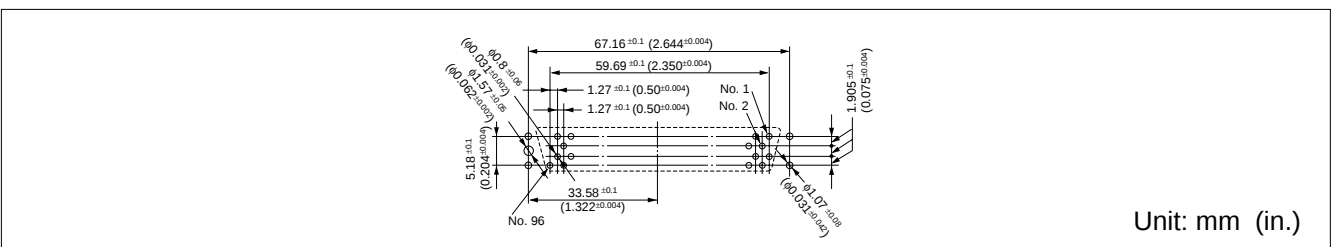
Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
48	FCN-234J048-G/Y	40.52 (1.595)	33.38 (1.314)	29.21 (1.150)
68	FCN-234J068-G/Y	53.22 (2.095)	46.08 (1.814)	41.91 (1.650)
96	FCN-234J096-G/Y	71.00 (2.795)	63.86 (2.514)	59.69 (2.350)

STRAIGHT SOCKET (EXTENDED HEIGHT S BUS - STACK HEIGHT 39.1mm)

■ DIMENSIONS

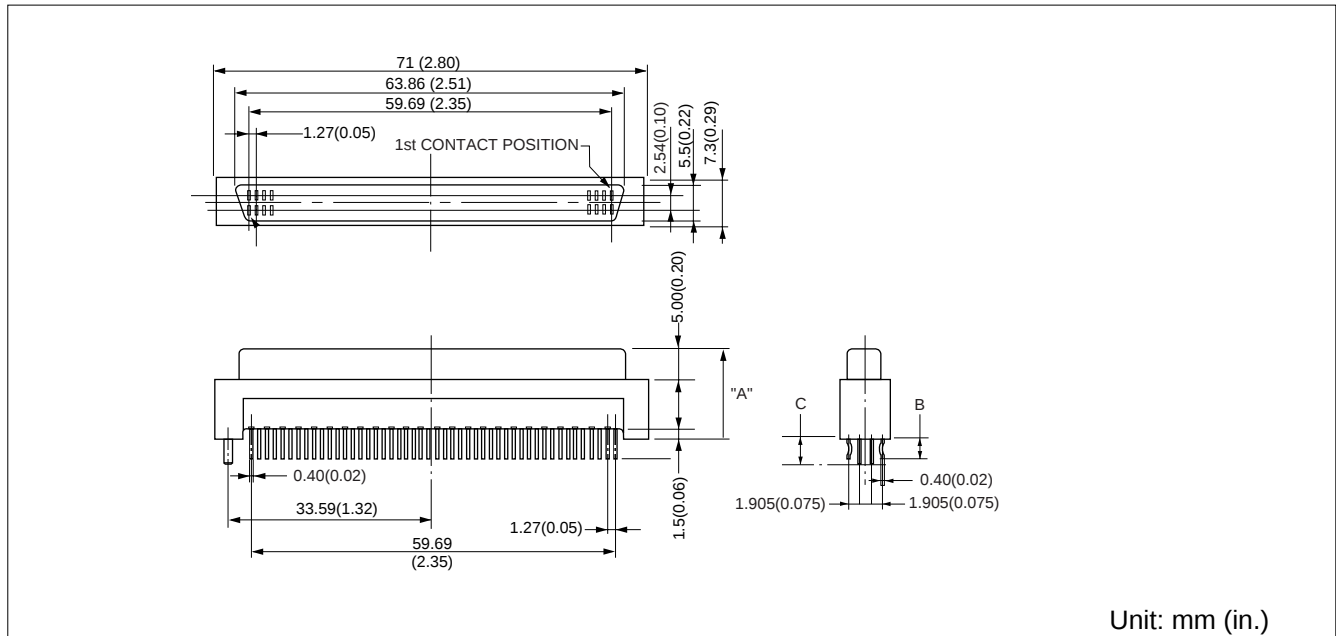


■ MOUNTING HOLE LAYOUT

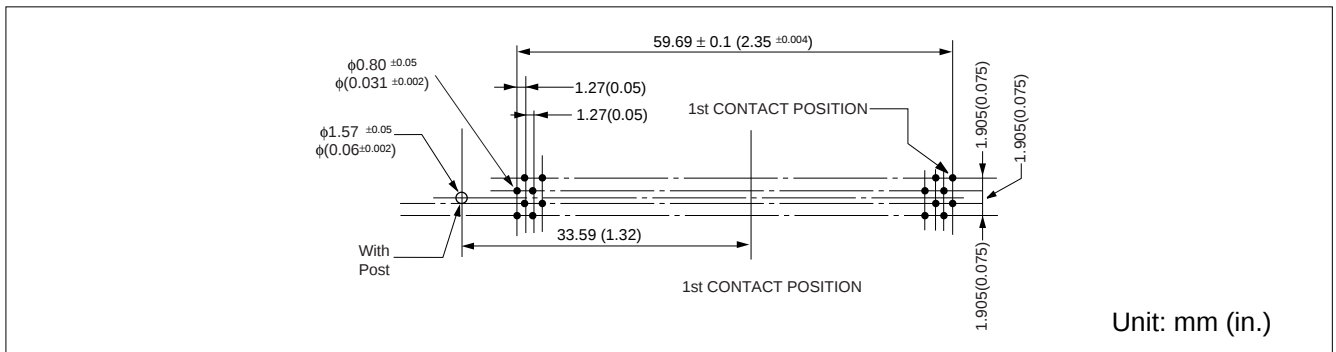


FCN-234J096-G/* STRAIGHT-TYPE SOCKET — S-BUS

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

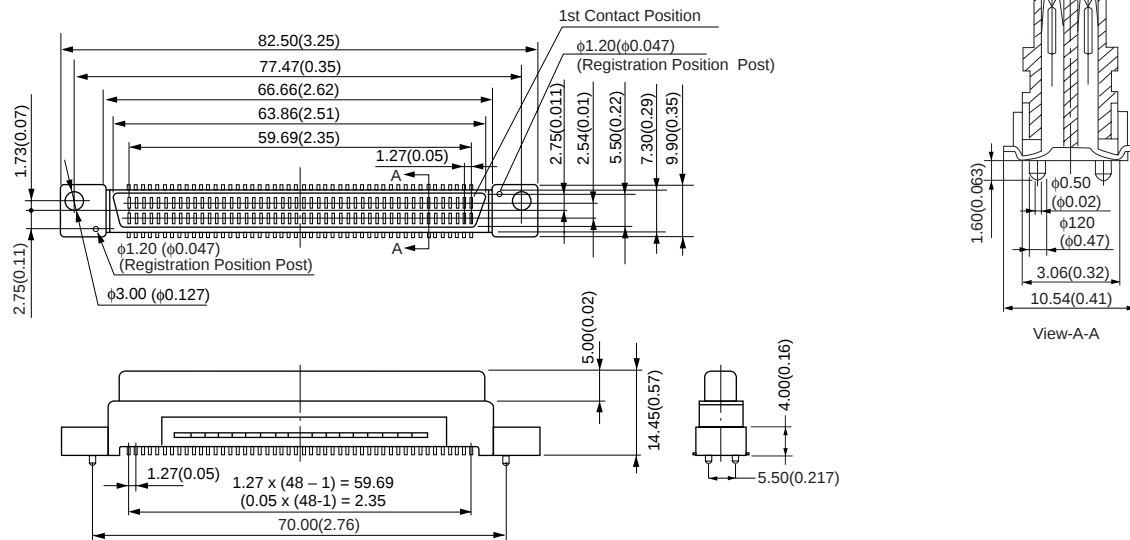


■ PART NUMBERS AND DIMENSIONS

No. of Contacts	Part Number	A	B Lead Length	C Polarization Post	Description
96	FCN-234J096-G/O	10.7(0.421)	3.0(0.13)	-	Std.
96	FCN-234J096-G/S	10.7(0.421)	3.0(0.13)	4.0(0.16)	Std.
96	FCN-234J096-G/Y	14.45(0.57)	3.0(0.13)	-	S-Bus
96	FCN-234J096-G/TFA	14.45(0.57)	2.8(0.11)	3.4(0.13)	S-Bus
96	FCN-234J096-G/UA	14.45(0.57)	3.0(0.13)	3.4(0.13)	S-Bus

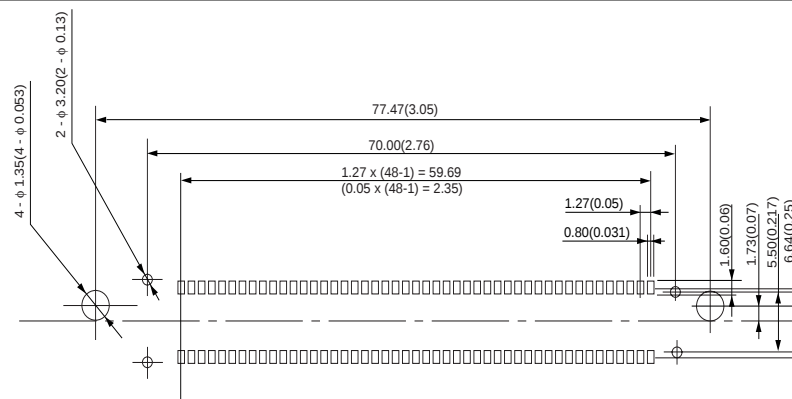
FCN-234J096-G/VA SMT SOCKET

■ DIMENSIONS



Unit: mm (in.)

■ PC BOARD PATTERN



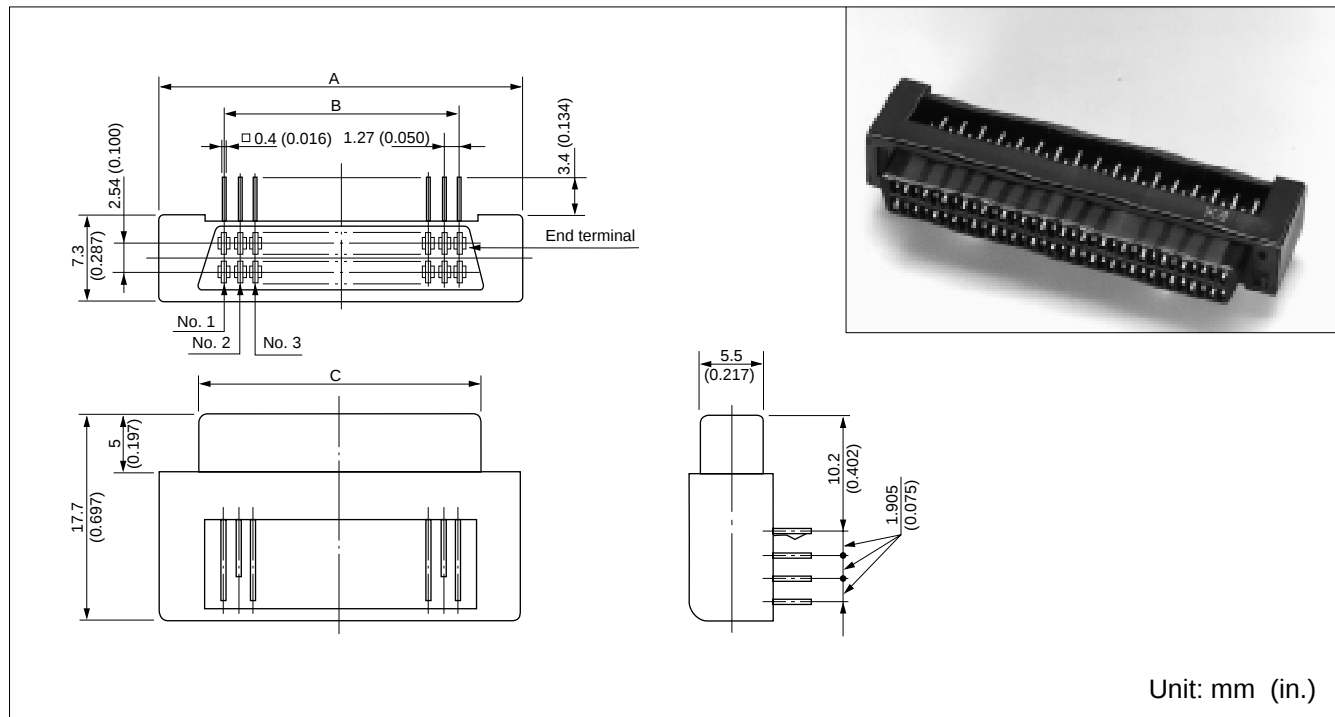
Unit: mm (in.)

■ PART NUMBER

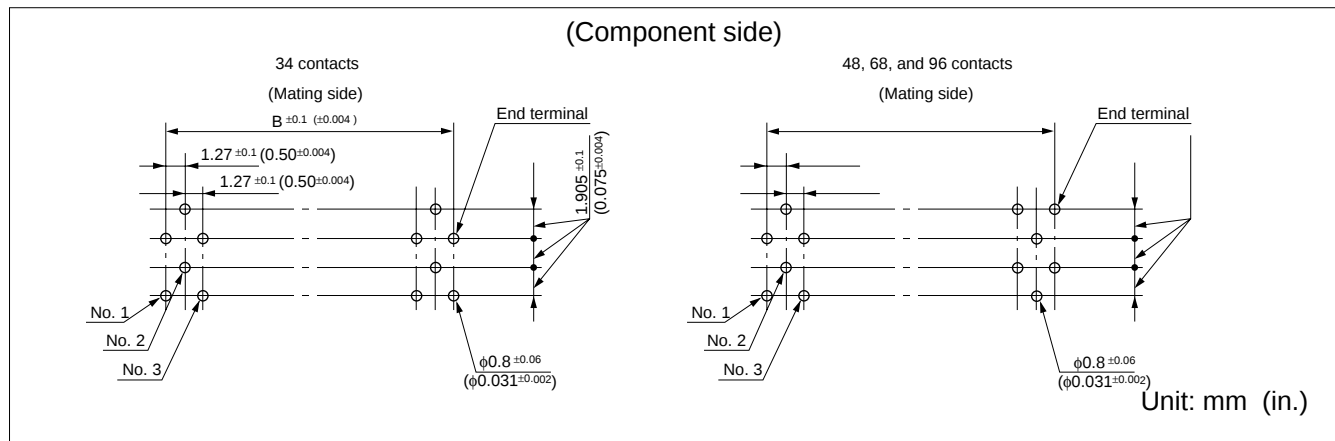
No. of Contacts	Part Number
96	FCN-234J096-G/VA

RIGHT-ANGLE SOCKET

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT



■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)		
		A	B	C
34	FCN-235J034-G/0	31.63 (1.245)	20.32 (0.800)	24.69 (0.800)
48	FCN-235J048-G/0	40.52 (1.595)	29.21 (1.150)	33.38 (1.314)
68	FCN-235J068-G/0	53.22 (2.095)	41.91 (1.650)	46.08 (1.814)
96	FCN-235J096-G/0	71.00 (2.795)	59.69 (2.350)	63.86 (2.514)

FOR CABLE ASSEMBLY TOOL INFORMATION SEE PAGES 2-183 TO 2-190

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