

Data Sheet

Fujitsu Narrow Pitch Stacking Connector FCN-280 Series

Fujitsu board-to-board narrow pitch stacking connector for use in measurement and factory automation control equipment

Overview

Fujitsu's FCN-280 board to board connector has a narrow pitch (0.8mm). The unique structure prevents insertion problems and it's easy lock structure provides tactile feedback when mated/unmated, an important consideration in industrial applications..



FCN-280 series connector

Features

- Terminal pitch 0.8mm
- 2.0mm effective mating length provides high connection reliability
- Stacking height 18mm
- Surface mount
- Fitting metals included to mount onto PCB
- Structure prevents misinsertion
- Easy lock structure with tactile feedback
- Tape added to interface with connector for vacuum pick and place

Item	Specification
Operating temperature range	-55°C to +85°C (includes temperature rise by current)
Max. current	0.5A
Max. voltage	100VAC
Contact resistance	45mΩ maximum (10mA, 20mVDC)
Insulation resistance	1,000MΩ minimum (100VDC)
Dielectric withstanding voltage	500VAC, 1 minute
Insertion force	30-pin: max. 28.0 N, 40-pin: max: 32.0 N, 60-pin: max: 40 N
Withdrawal force	30-pin: min. 2.0 N, 40-pin: min: 2.5 N, 60-pin: min: 3.5 N
Item	Material, Surface treatment
Insulation material	LCP resin, UL94 V-0
Conductor	Copper Alloy
Surface treatment	Contact: Gold plating (Pagos®) Terminal: Gold coat
Metal fitting	Copper alloy (tin plating)
Vacuum tape	Polyimide film / acrylic pressure sensitive adhesive

Ordering code

FCN- 28 8 M 030 G / 0 -T

(a) (b) (c) (d) (e) (f) (g) (h)

(a) Fujitsu Component connector

(b) 280 series connector

(c) Terminal 8: SMT

(d) Body: M: Plug

F: Socket

(e) Number of pins: 30, 40, 60

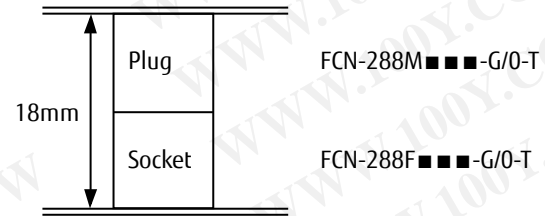
(f) G: Gold plating

(g) 0: Stacking height 18mm

(h) T: With vacuum tape

Board-to-board connection

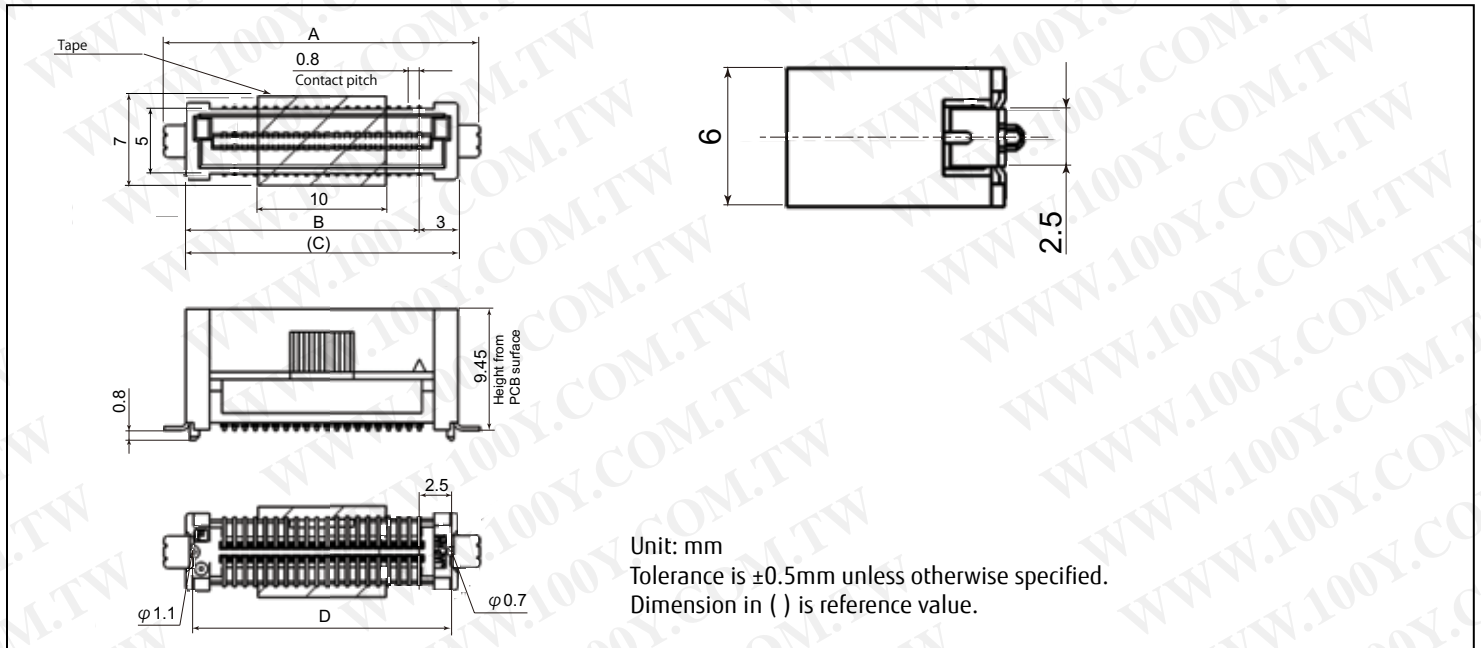
Parallel PCB connection



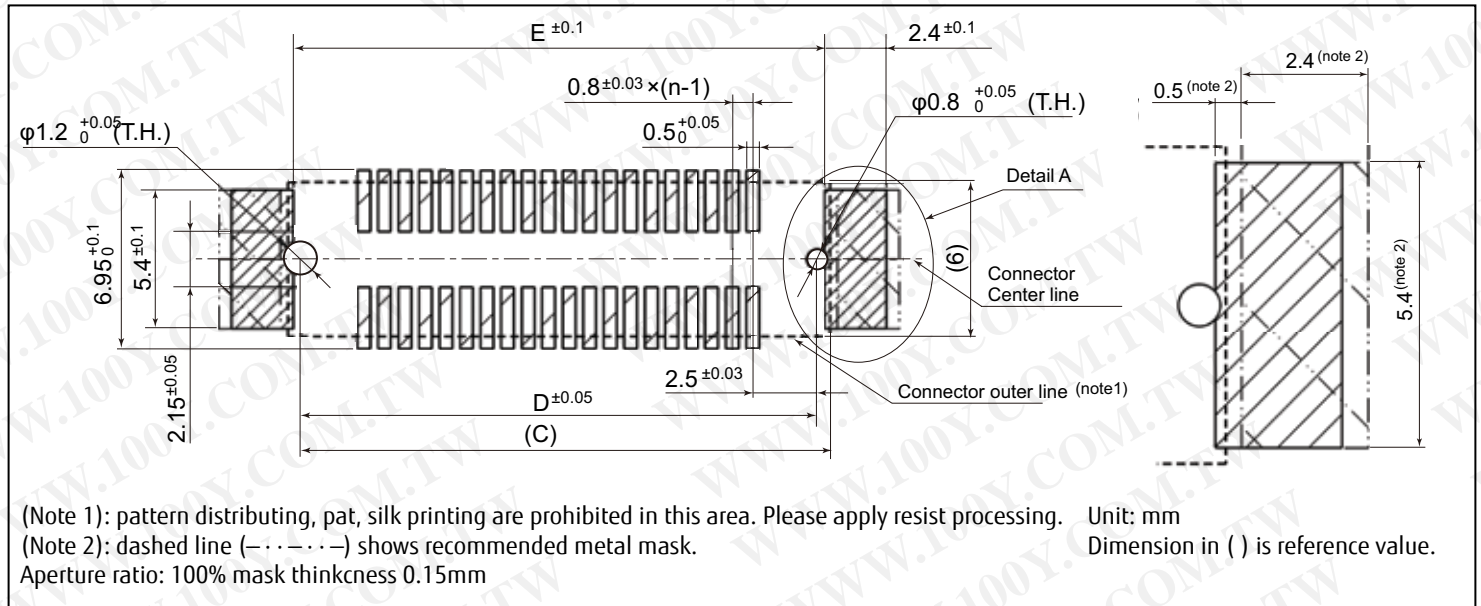
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

■ Straight Plug

• Dimensions



• Mounting hole layout

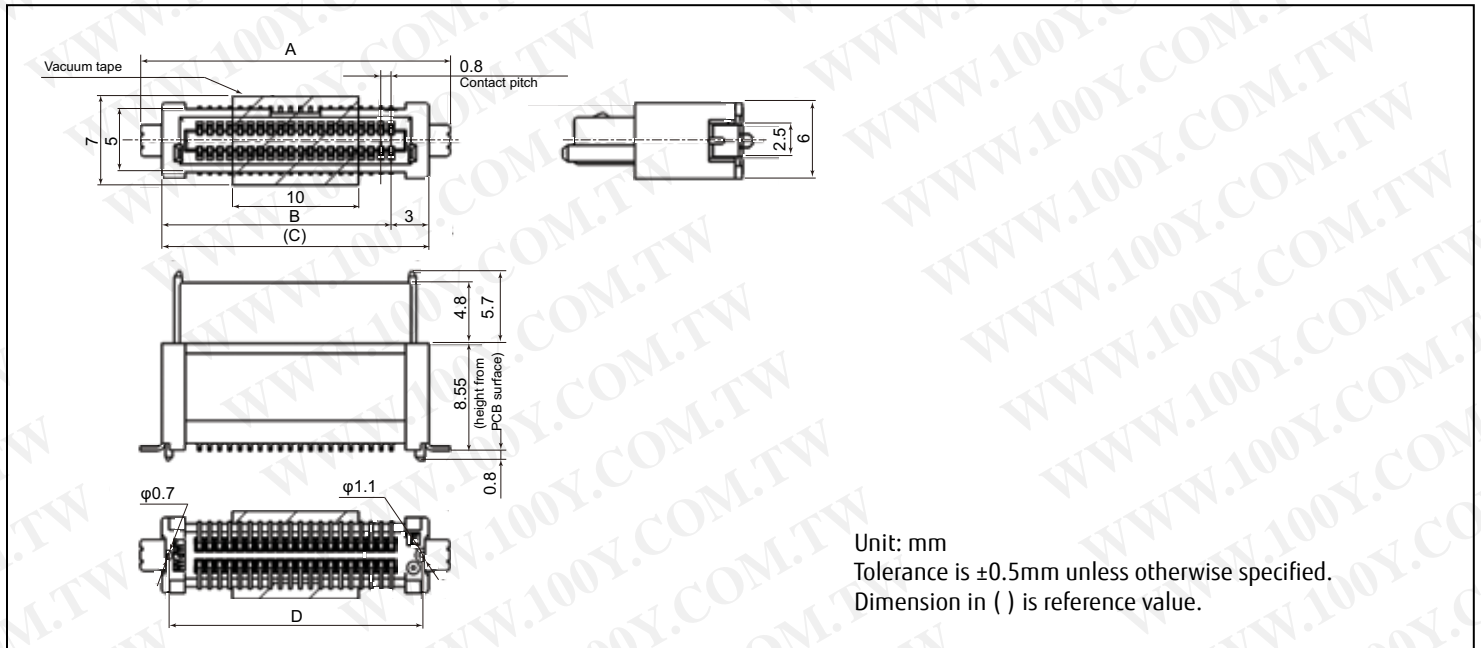


• Part numbers and dimensions

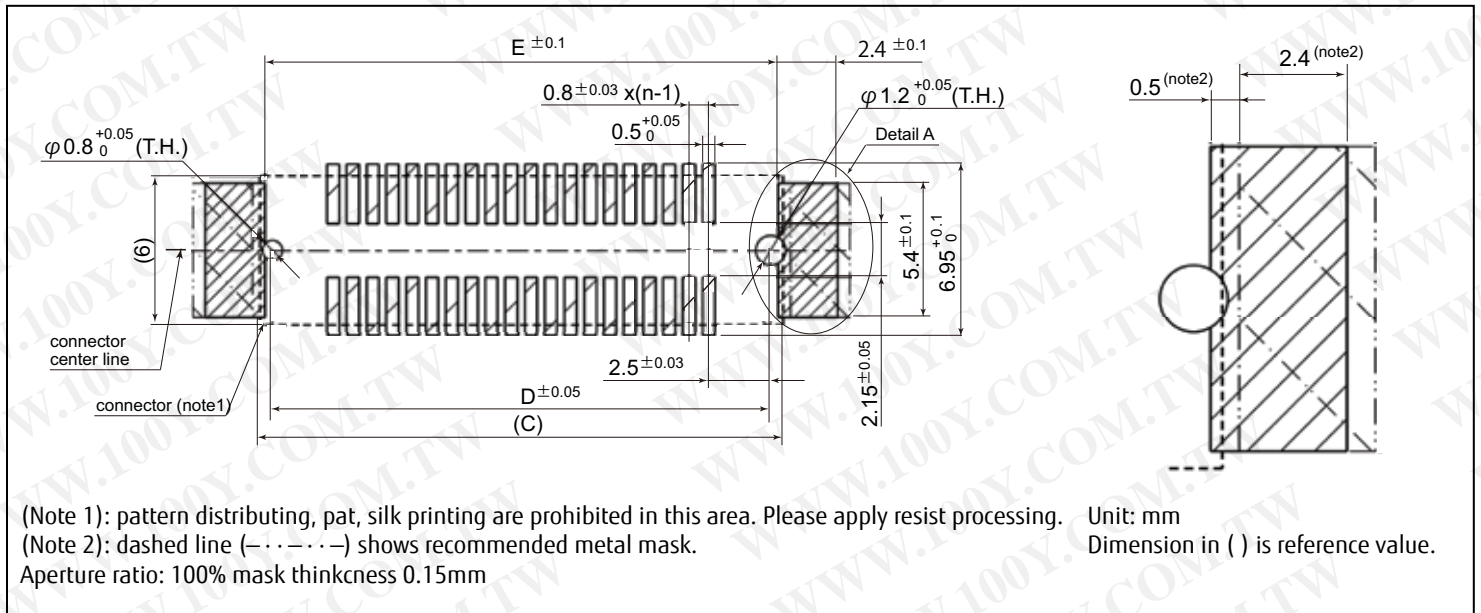
No. of pins	Part number	Dimensions (mm)					MOQ
		n	A	B	(C)	D	
30	FCN-288M030-G/0-T	15	20.6	14.2	(17.2)	16.2	560
40	FCN-288M040-G/0-T	20	24.6	18.2	(21.2)	20.2	560
60	FCN-288M060-G/0-T	30	32.6	26.2	(29.2)	28.2	480

■ Socket

• Dimensions



• Mounting hole layout



• Part numbers and dimensions

No. of pins	Part number	Dimensions (mm)					MOQ	
		n	A	B	(C)	D		
30	FCN-288F030-G/0-T	15	20.6	14.2	(17.2)	16.2	16.8	560
40	FCN-288F040-G/0-T	20	24.6	18.2	(21.2)	20.2	20.8	560
60	FCN-288F060-G/0-T	30	32.6	26.2	(29.2)	28.2	28.8	480

■ Recommended soldering conditions (reference)

