

Discontinued

FUJITSU Component Connector FCN-118X series (Grounding Springs)

Fujitsu grounding springs for mobile devices

Overview

Fujitsu Components' grounding spring FCN-118X provides secure frame grounding between pc board and frame of mobile devices such as smart phones and tablet PCs. Its unique side-wing structure increases the spring's rigidity and strength to resist deformation from applied outside force.

Features

- Unique side-wing structure prevents deformation from applied outside force (patent pending)
- Wide working range with three product options
- Capable to use as power contact
- Custom designs possible
- RoHS compliant

Item	Specification
Contact resistance	40mΩ (20mVDC, 1mA)
Attach/remove endurance	50mΩ (after 10 attachments/removals)
Operating temperature	-40 to +85°C, 95RH% max.
Storage temperature	-10 to +40°C, 90RH% max. (no frost)

Item	Material
Base material	Copper alloy
Surface treatment	Gold plated nickel

■ Part numbers and dimensions

Part number	Dimensions (LxWxH mm)	Flexion range (mm)	Working range (mm)	Contact Force (N)
FCN-118X001-G/0	3.7 x 1.4 x 2.05	0.80	1.25 ~ 1.8	1.0±0.3 (at height = 1.4mm)
FCN-118X003-G/0	3.0 x 1.3 x 2.85	0.75	2.1 ~ 2.4	1.0±0.3 (at height = 2.25mm)
FCN-118X004-G/0	3.7 x 1.4 x 1.8	0.95	0.85 ~ 1.4	0.8±0.2 (at height = 0.8mm)



FCN-118X001-G/0



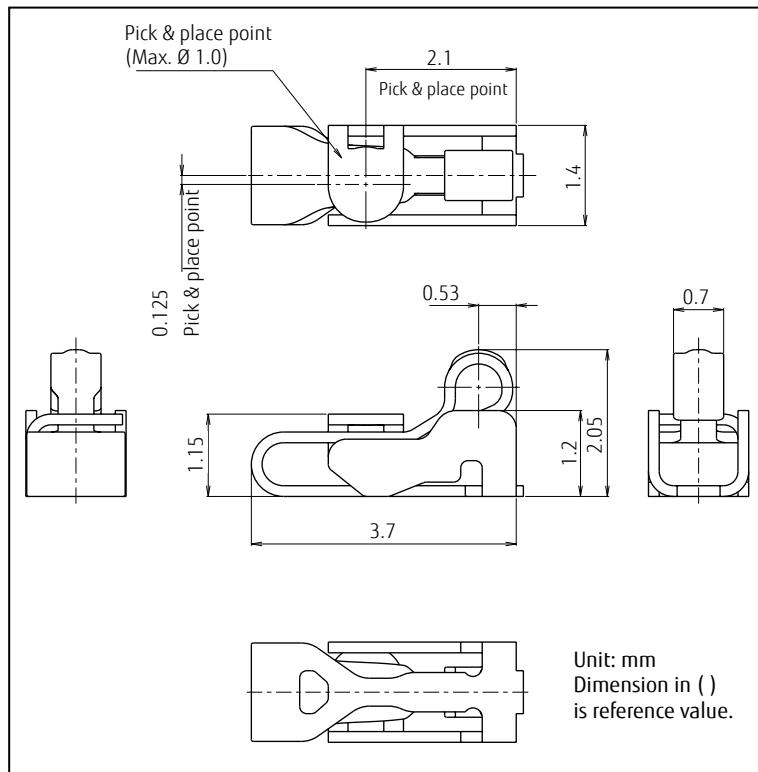
FCN-118X003-G/0



FCN-118X004-G/0

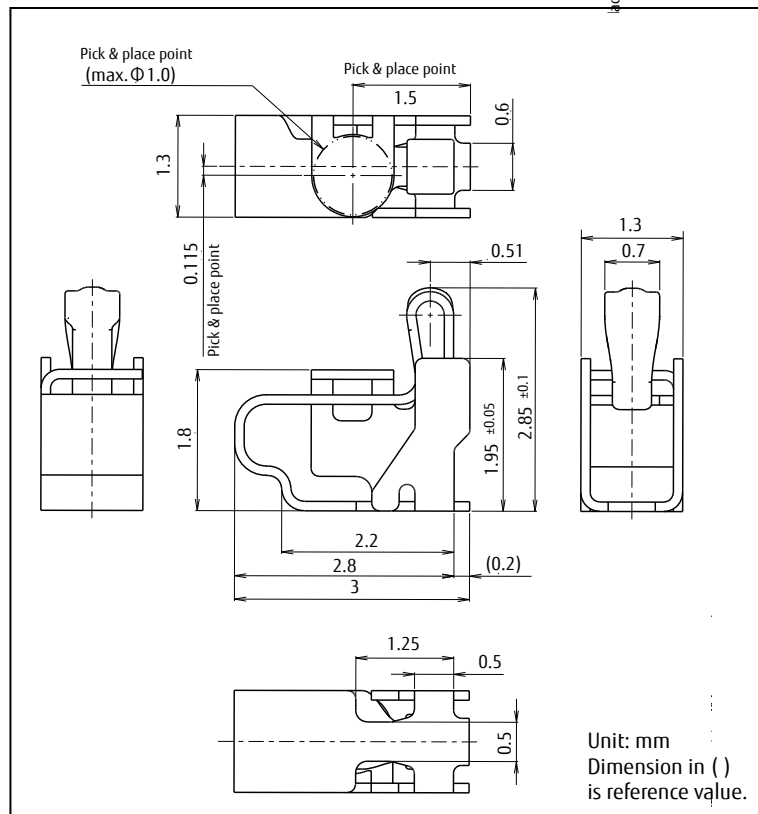
■ FCN-118X001-G/0

- Dimensions



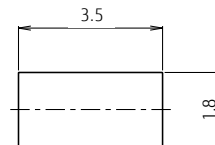
■ FCN-118X003-G/0

- Dimensions



- Mounting Position

- Recommended PCB layout

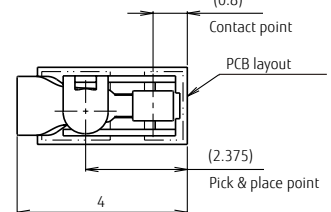


Unit: mm

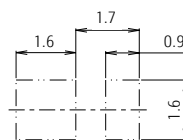
Tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

Dimension in () is reference value.

- Recommended mounting position



- Recommended metal mask layout

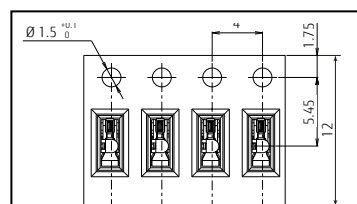


Recommended metal mask layout thickness: 0.12

Unit: mm

Tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

- Packaging



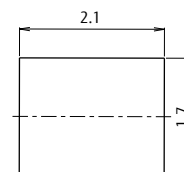
1 reel: 4,000

Diameter of a reel: 330mm

Unit: mm

- Mounting Position

- Recommended PCB layout

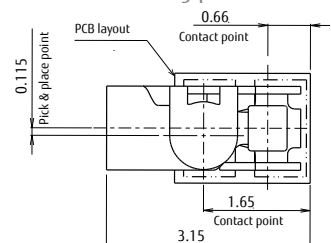


Unit: mm

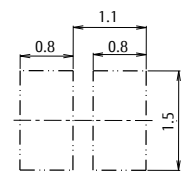
Tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

Dimension in () is reference value.

- Recommended mounting position



- Recommended metal mask layout

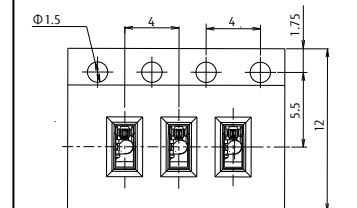


Recommended metal mask layout thickness: 0.12

Unit: mm

Tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

- Packaging



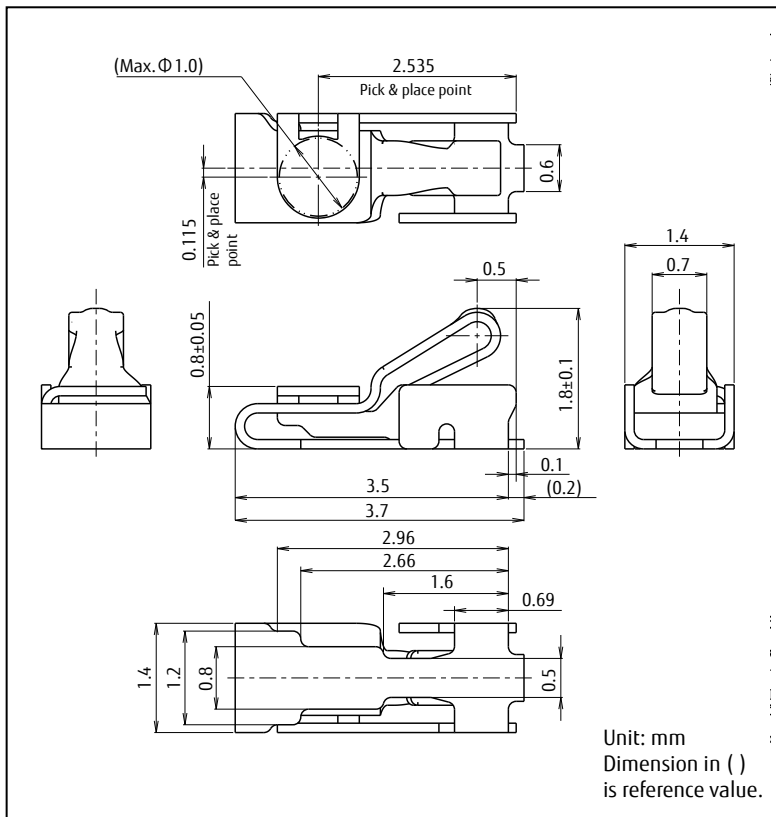
1 reel: 4,000

Diameter of a reel: 330mm

Unit: mm

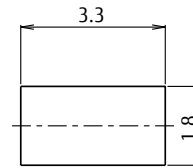
■ FCN-118X004-G/0

■ Dimensions



■ Mounting Position

• Recommended PCB layout

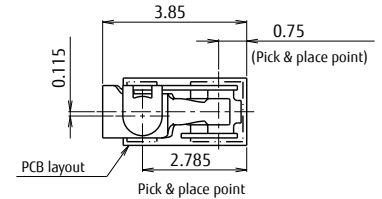


Unit: mm

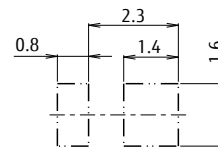
Tolerance is ± 0.5 mm unless otherwise specified.

Dimension in () is reference value.

• Recommended mounting position



■ Recommended metal mask layout

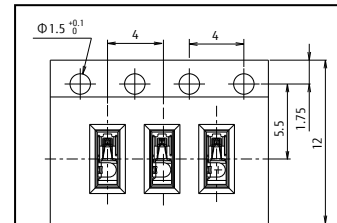


Recommended metal mask layout thickness: 0.12

Unit: mm

Tolerance is ± 0.5 mm unless otherwise specified.

■ Packaging

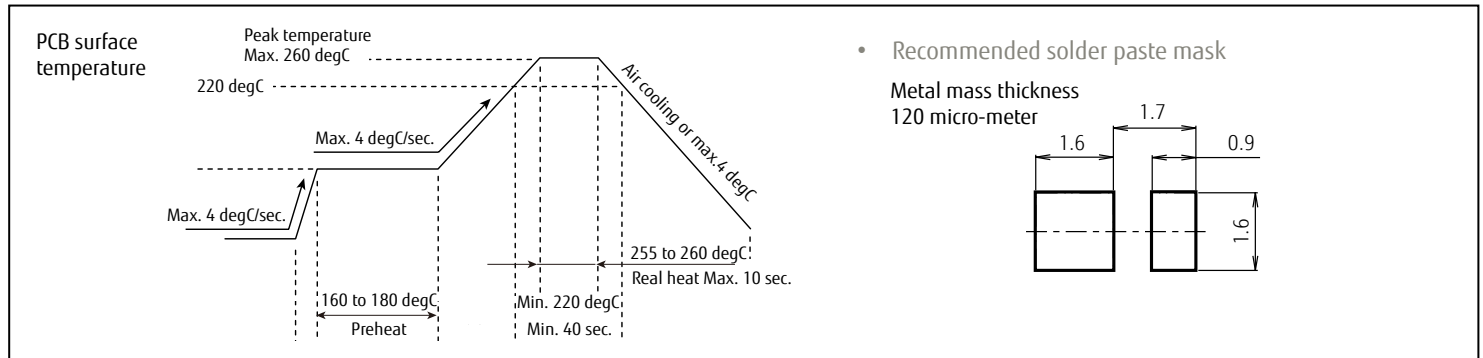


1 reel: 4,000

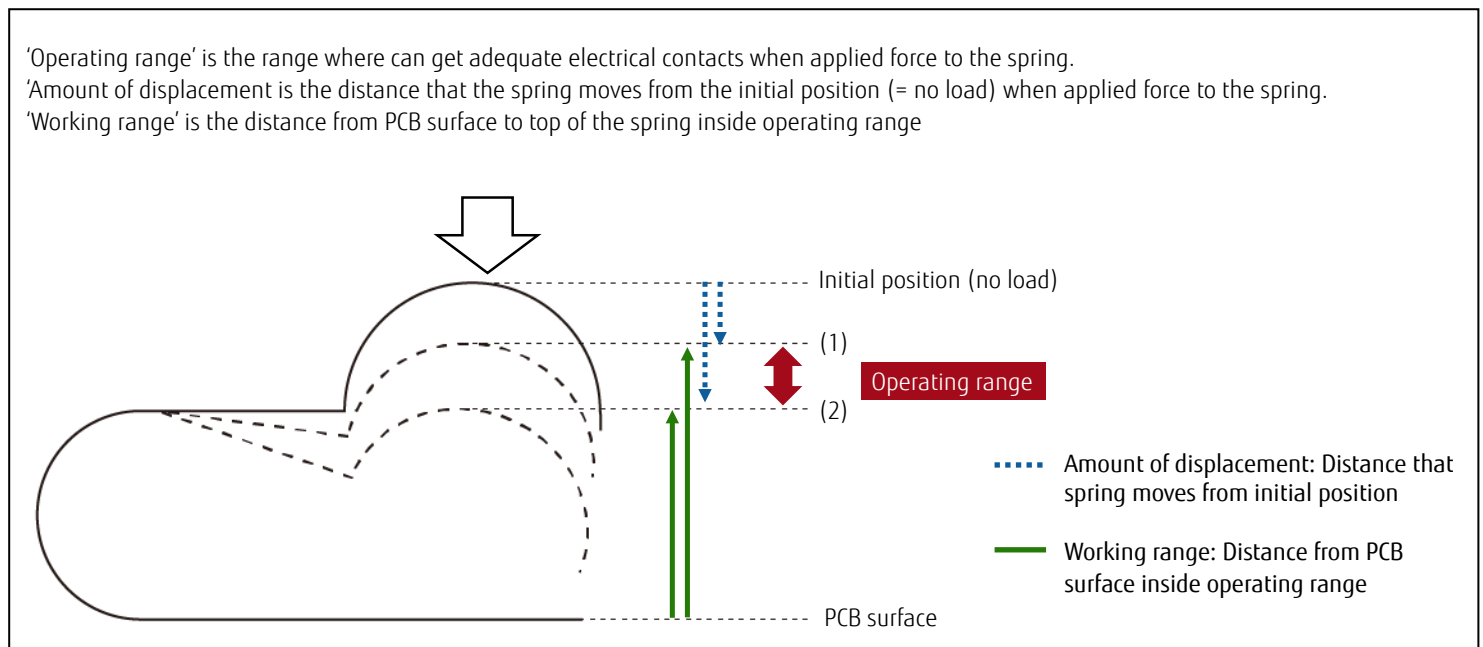
Diameter of a reel: 330mm

Unit: mm

■ Recommended Soldering Conditions



■ Amount of displacement and working range



Contact

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