

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 smart phones. 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)
- 0.80mm displacement/flexion range
- 1.25 to 1.80mm working range
- 0.5 to 1.6N max. contact force
- Capable to use as 4A power contact
- Custom designs possible
- RoHS compliant

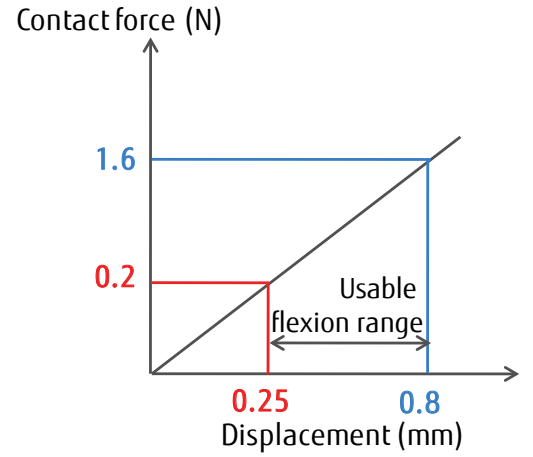
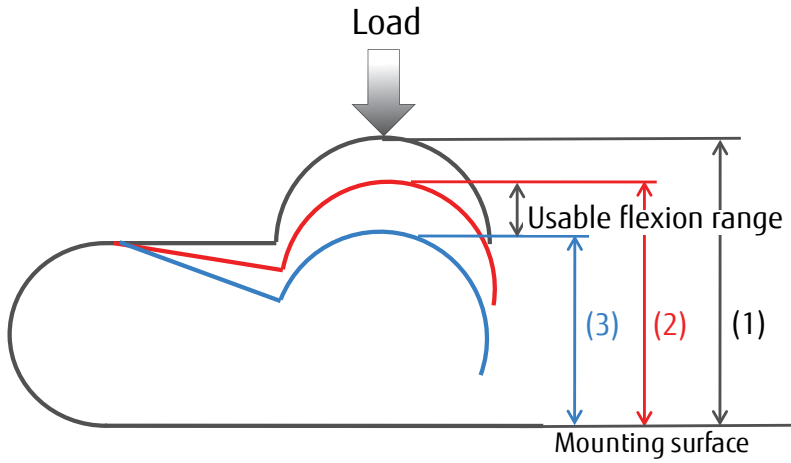


FCN-118X grounding spring

Item	Specification
Contact resistance	40mΩ (20mVDC, 1mA)
Contact force	0.5 to 1.6N
Operating temperature	-40 to +85°C, 95RH% max.
Storage temperature	-10 to +40°C, 90RH% max. (no frost)
Dimensions (mm)	3.7 x 1.4 x 2.05 (L x W x H)

Item	Part Number
Grounding spring	FCN-118X001-G/0
Reel	4,000 pieces / diameter 330mm

■ Flexion range



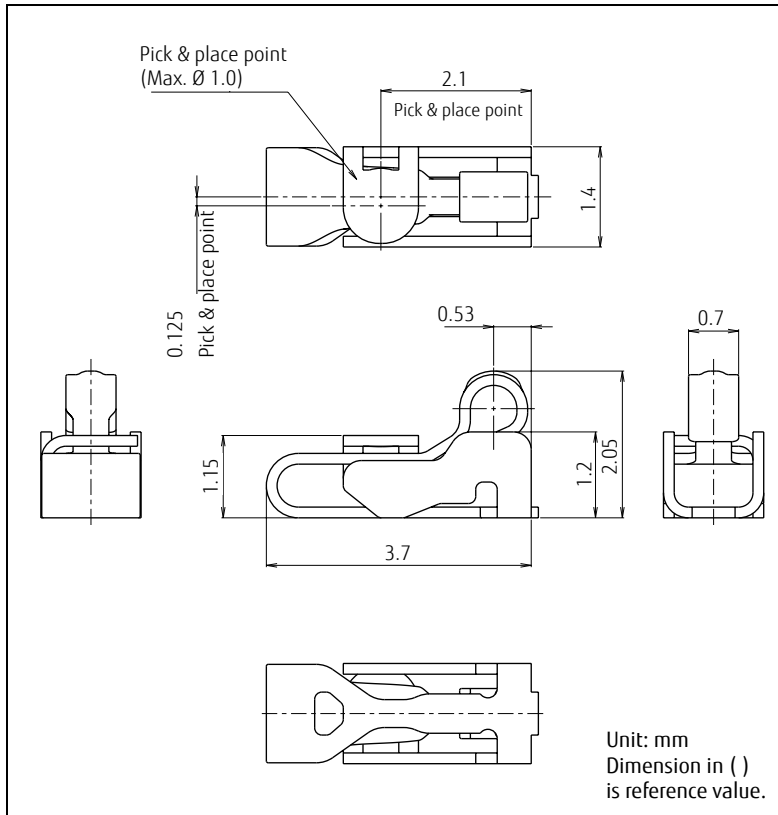
	Contact height (mm)	Displacement (mm)	Contact force (N)
(1)	2.05	0	0
(2)	1.8	0.25	0.2
(3)	1.25	0.8	1.6

Initial height	2.05mm
Flexion range	1.25 to 1.8mm
Contact force	0.2 to 1.6N

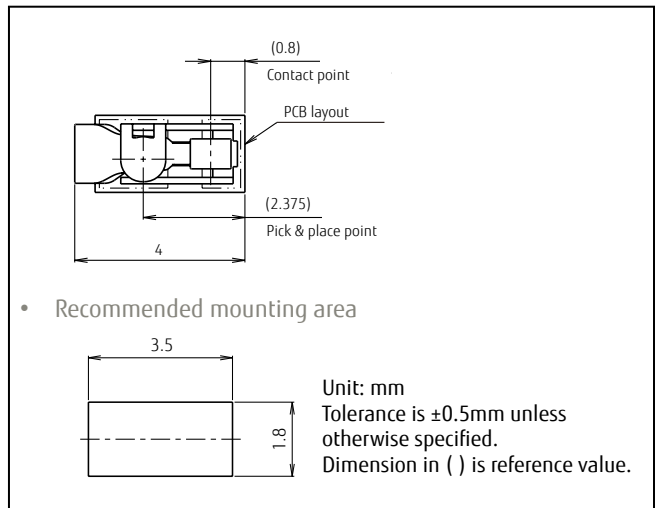
Flexion range: displacement to reach specified contact force

Working range: distance of contact from mounting surface within the flexion range

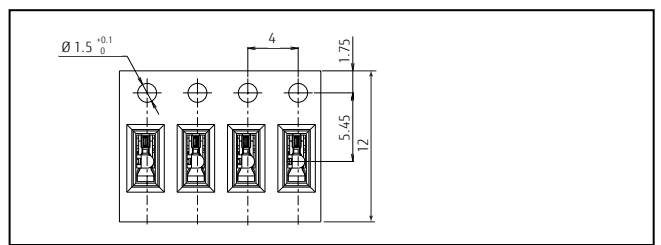
■ Dimensions



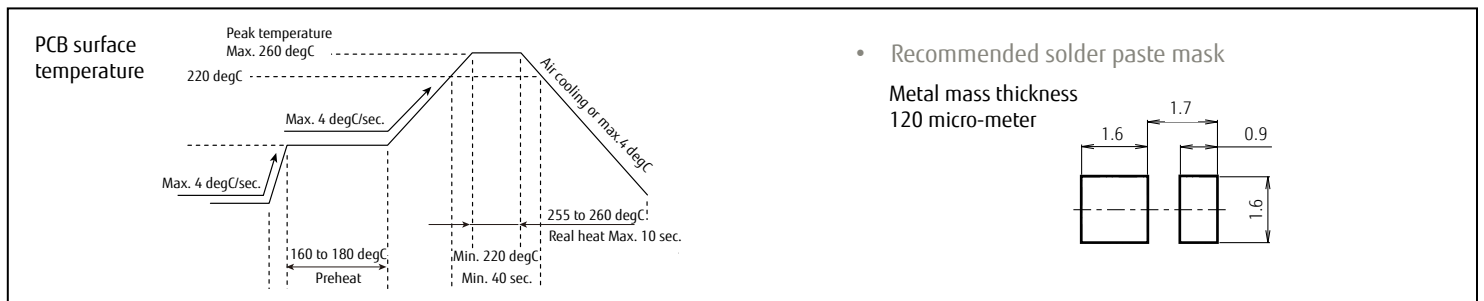
■ Mounting Position



■ Packaging



■ Recommended Soldering Conditions



Contact

Japan
 FUJITSU COMPONENT LIMITED
 Gotanda-Chuo Building
 3-5, Higashigotanda 2-chome, Shinagawa-ku
 Tokyo 141 8630, Japan
 Tel: (81-3) 5449-7010
 Fax: (81-3) 5449-2626
 Email: promohtq@fcl.fujitsu.com
 Web: www.fcl.fujitsu.com

Europe
 FUJITSU COMPONENTS EUROPE B.V.
 Diamantlaan 25
 2132 WV Hoofddorp
 Netherlands
 Tel: (31-23) 5560910
 Fax: (31-23) 5560950
 Email: info@fceu.fujitsu.com
 Web: emea.fujitsu.com/components/

China
 FUJITSU COMPONENTS SHENZHEN
 Room 1001, Di Wang Commercial Ctr.
 5002 shen Nan Dong Road
 Shenzhen 518008, PRC
 Tel: (86 755) 8247 8463
 Fax: (86 755) 8246 1510
 Email: fcal@fcal.fujitsu.com
 www.fujitsu.com/sg/services/micro/components

Copyright
 All trademarks or registered trademarks are the property of their respective owners.
 Fujitsu Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice. Copyright ©2014 Fujitsu Components America, Inc.
 All rights reserved.
 Revised January 6, 2014

North and South America
 FUJITSU COMPONENTS AMERICA, INC.
 250 E. Caribbean Drive
 Sunnyvale, CA 94089 U.S.A.
 Tel: (1-408) 745-4900
 Fax: (1-408) 745-4970
 Email: components@us.fujitsu.com
 Web: http://us.fujitsu.com/components/

Asia Pacific
 FUJITSU COMPONENTS ASIA, Ltd.
 102E Pasir Panjang Road
 #01-01 Citilink Warehouse Complex,
 Singapore 118529
 Tel: (65) 6375-8560 / Fax: (65) 6273-3021
 Email: fcal@fcal.fujitsu.com
 www.fujitsu.com/sg/services/micro/components

Hong Kong
 FUJITSU COMPONENTS HONG KONG Co., Ltd.
 Suite 913, Ocean Centre, 5 Canton Rd, TST
 Kowloon, Hong Kong 118529
 Tel: (852) 2881 8495
 Fax: (852) 2894 9512
 Email: fcal@fcal.fujitsu.com
 www.fujitsu.com/sg/services/micro/components