

SCA.1, SCA. 2 INTERFACE CONNECTOR

240 SERIES (SCA)

■ FEATURES

- Half pitch connector conformed to SCA system (80 pins).
- Add mating guide and ESD protection to do plug-in safety and reliability (They are newly added on SCA. 2CN).
- Hot-plugging. Ground contacts mate first before other contacts mate when engagement is done (conforms to SCA.2 specification).
- To prevent pin-bending, bellows contacts are used.
- Plug: 2 types are available.
 - 1) The center of a SMT plug mates the center of a PCB.
 - 2) 0.9 mm (0.035 in.) off-set from center



■ SPECIFICATIONS

| Item | Specifications |
|-------------------------------|----------------------------|
| Operating temperature range | -55°C to +105°C |
| Current rating | DC 1 A |
| Voltage rating | AC 240 V |
| Contact resistance | 40 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 |

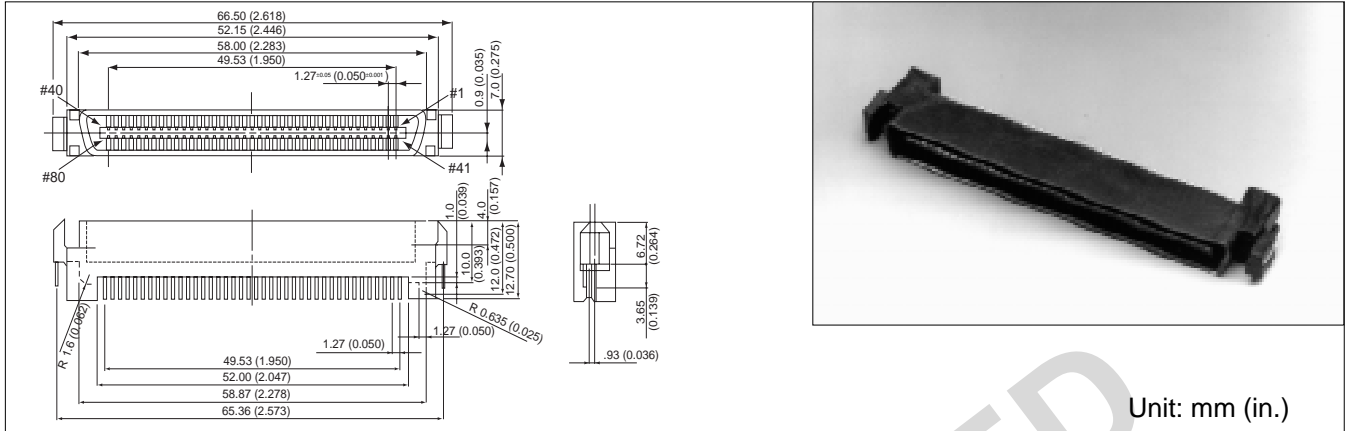
■ MATERIALS

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

240 Series (SCA.2)

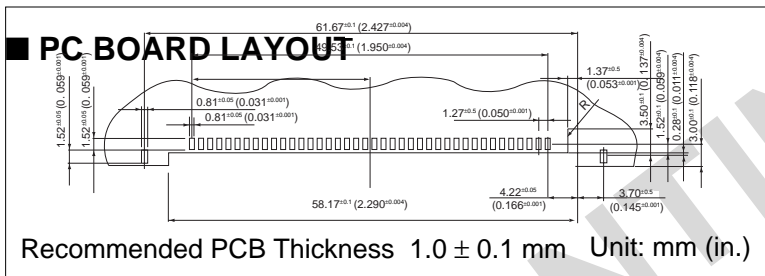
PLUG, SMT [0.9 mm (0.035 in.) OFFSET] SCA.2

■ DIMENSIONS



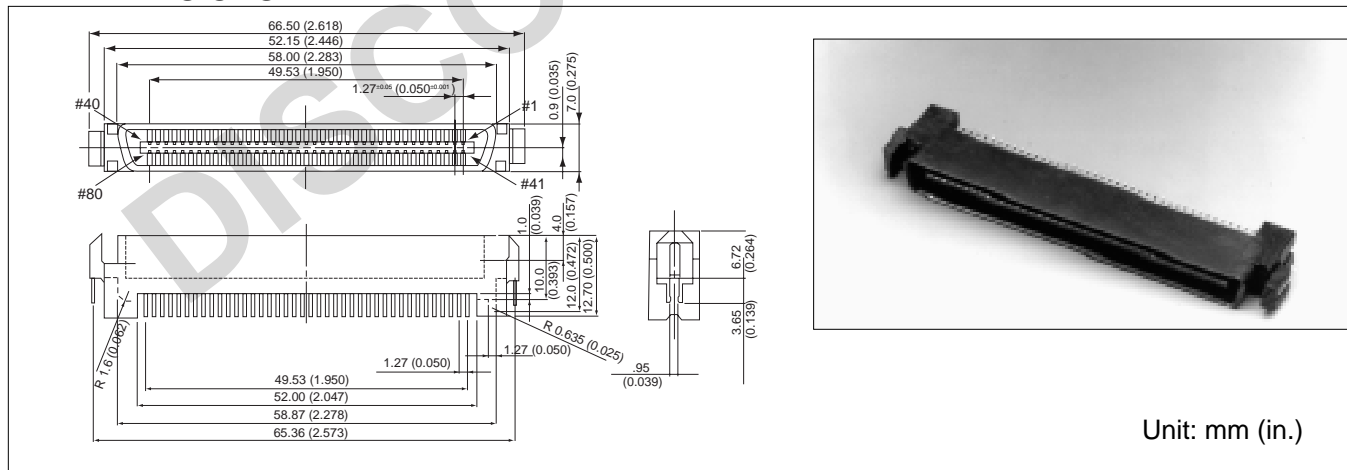
■ PART NUMBER

FCN-248Q080-L/DS

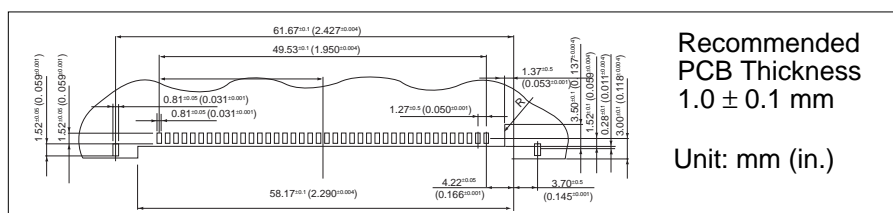


PLUG, SMT (STRADDLE MOUNT) SCA.2

■ DIMENSIONS



■ PC BOARD LAYOUT



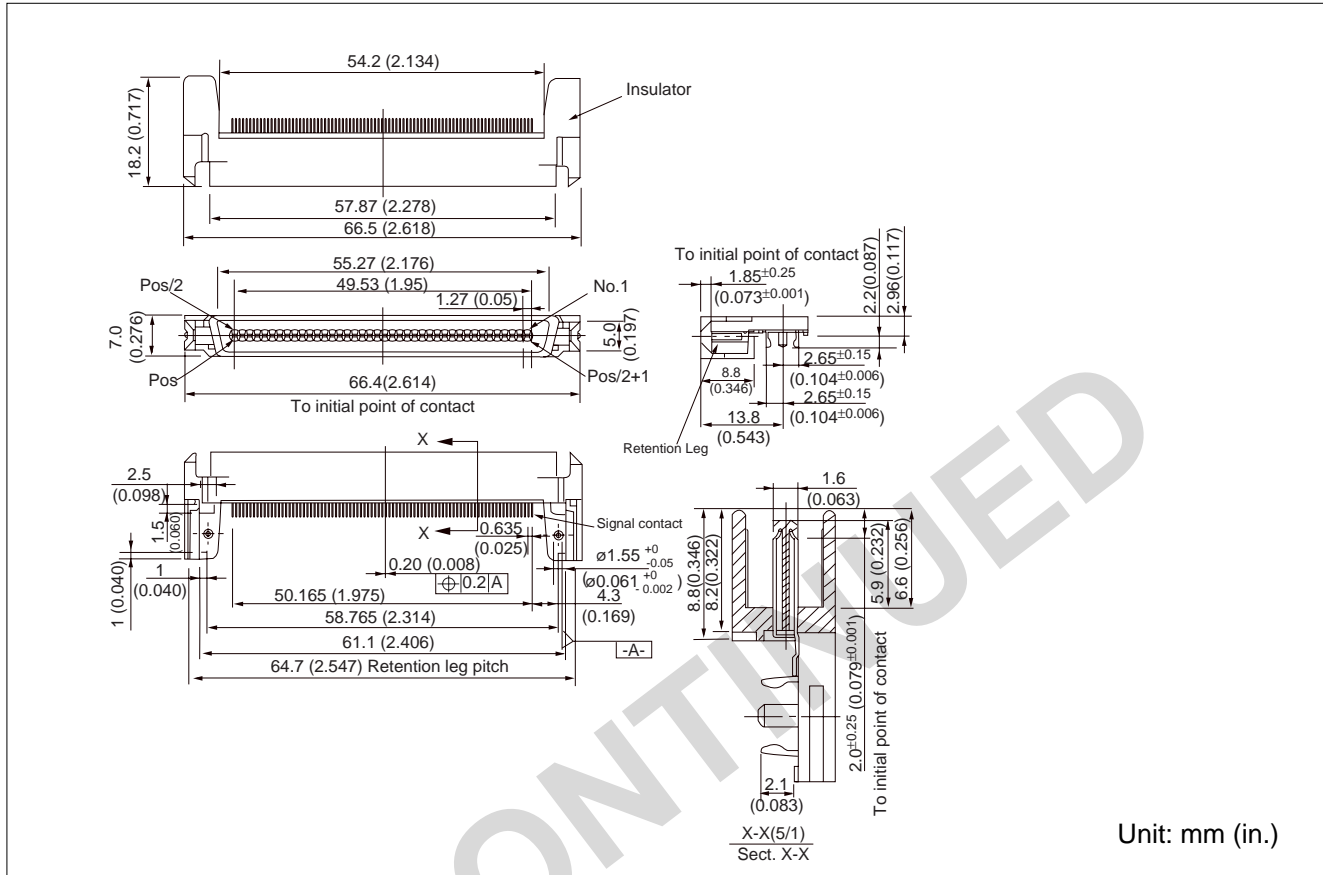
■ PART NUMBER

FCN-248Q080-L/ES

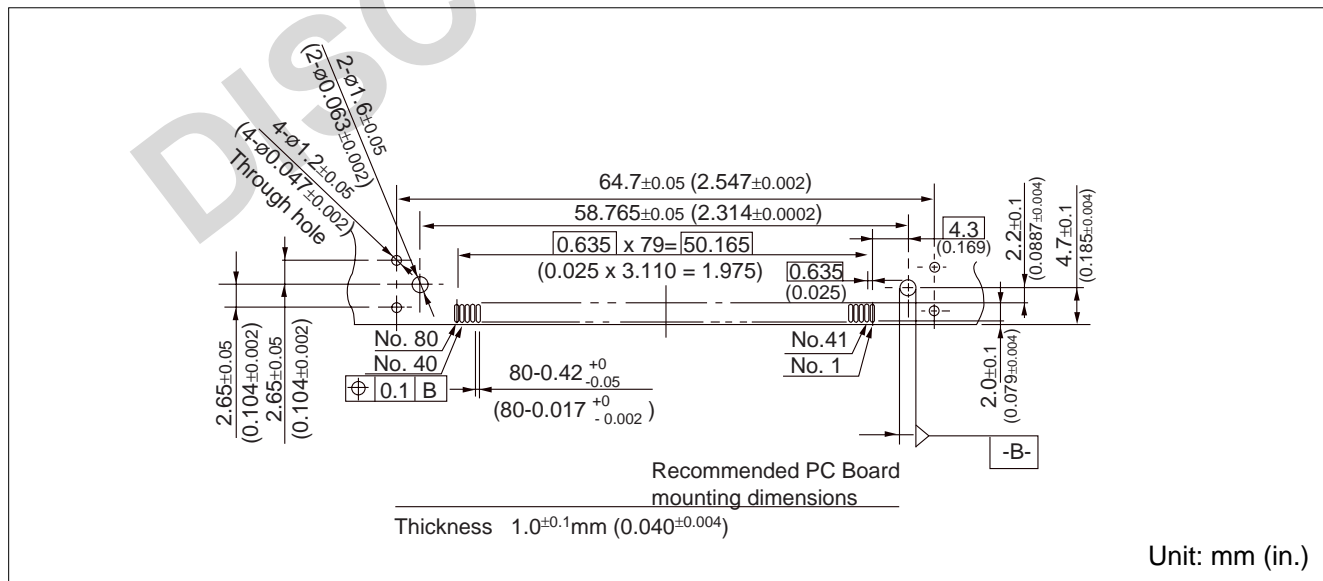
PLUG, SMT (STRADDLE MOUNT) FIBER CHANNEL

SINGLE SIDE SMT SCA.2

■ DIMENSIONS



■ PC BOARD LAYOUT



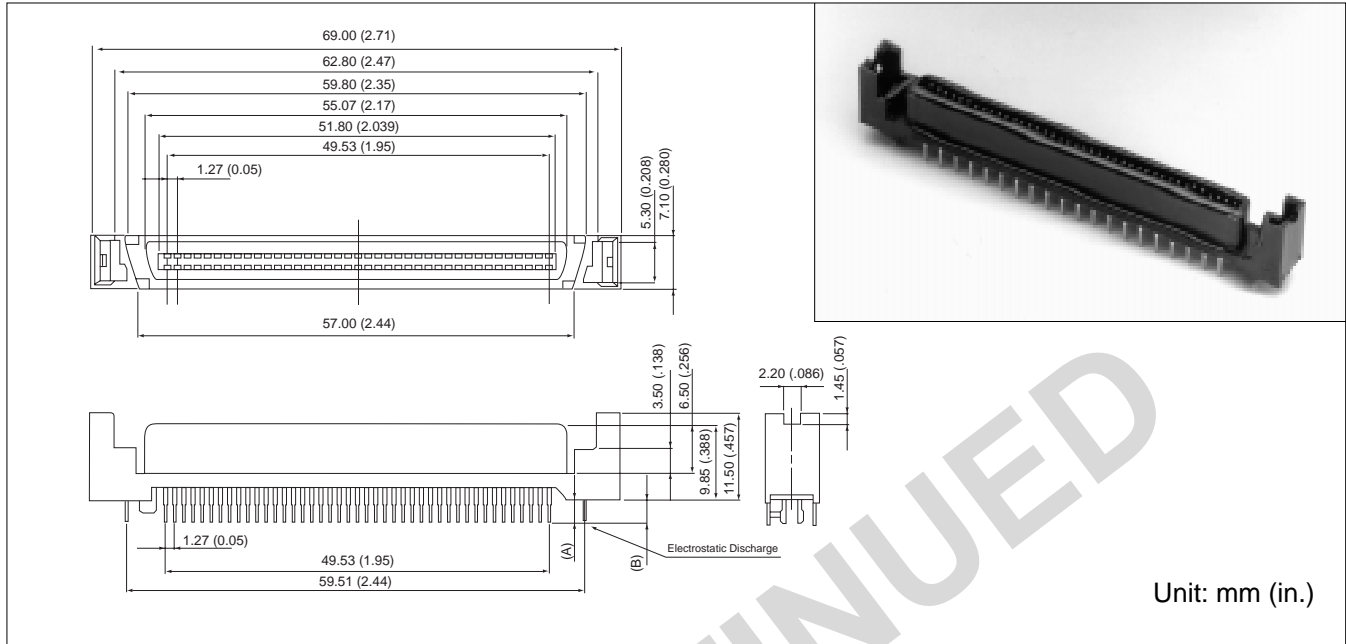
■ PART NUMBER

FCN-248Q080-L/FS

240 Series (SCA.2)

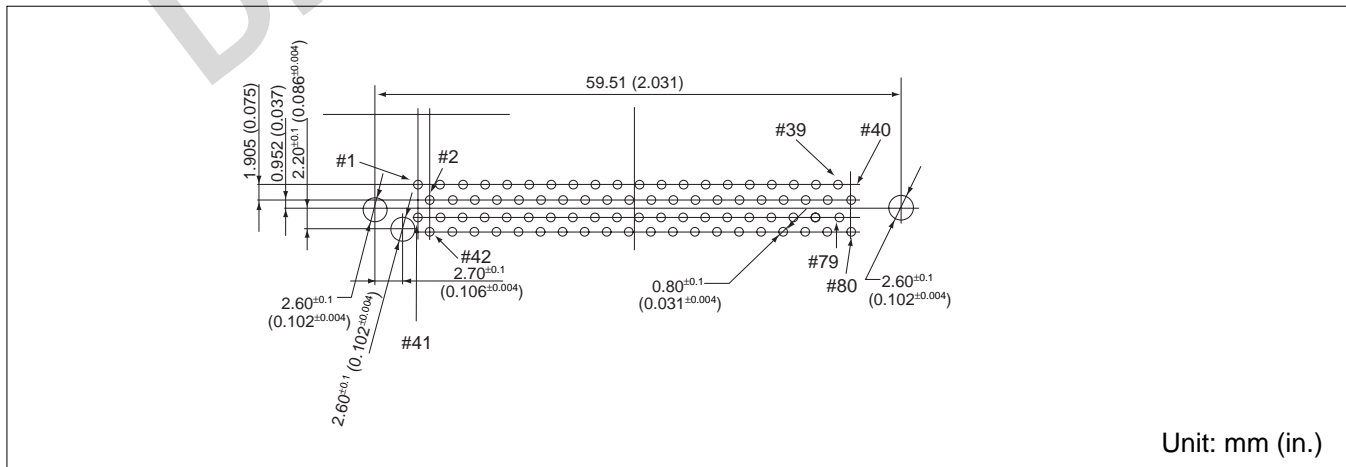
SOCKET, VERTICAL MOUNT

■ DIMENSIONS



| RECOMMENDED PWB THICKNESS | PART NUMBER | SIGNAL CONTACT POST LENGTH (A) | ESD CONTACT POST LENGTH (B) |
|---------------------------|------------------|--------------------------------|-----------------------------|
| PT : 0.8 mm | FCN-244B080-L/CS | 1.88 (0.074) | 1.88 (0.074) |
| PT : 1.6 mm | FCN-244B080-L/BS | 2.79 (0.110) | 2.70 (0.106) |
| PT : 2.0 mm | FCN-244B080-L/DS | 3.12 (0.123) | 3.12 (0.123) |
| PT : 2.4 mm | FCN-244B080-L/ES | 3.14 (0.124) | 3.45 (0.136) |
| PT : 3.2 mm | FCN-244B080-L/FS | 4.06 (0.160) | 4.27 (0.168) |

■ PC BOARD MOUNTING PATTERN



Fujitsu Components International Headquarter Offices

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: promothq@fcl.fujitsu.com
Web: www.fcl.fujitsu.com

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/>

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/

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](mailto:fcals@fcal.fujitsu.com)
Web: <http://www.fujitsu.com/sg/services/micro/components/>

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