# SYSTEM CF Technical Specifications

TEST METHODS FOR ELECTRONIC CONNECTOR IS ACCORDING TO FOLLOWING MILTARY STANDARD:

| | |
|---|---|
| Dielectric Withstanding Voltage | - Per MIL-STD-1344A method 3001.1 |
| Contact Resistance | - Per MIL-STD-1344A method 3002.1 |
| Insulation Resistance | - Per MIL-STD-1344A method 3003.1 |
| Solderability | - Per MIL-STD-202F method 208D |

## 0.80mm (.031") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 0.5 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -25°C - +85°C

**Construction-**
Insulator: Color Black, High temperature plastic
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 1.00mm (.039") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 1 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -25°C - +85°C

**Construction-**
Insulator: Color Natural and Brown, High temperature plastic
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 1.25mm (.049") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 1 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -40°C - +105°C

**Construction-**
Insulator: Color Natural and Black, Glass filled polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 2.54mm (.100") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 3 Amps max.
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

**Construction-**
Insulator: Color Black, Glass filled polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

# SYSTEM CF Technical Specifications

TEST METHODS FOR ELECTRONIC CONNECTOR IS ACCORDING TO FOLLOWING MILTARY STANDARD:

| | |
|---|---|
| Dielectric Withstanding Voltage | - Per MIL-STD-1344A method 3001.1 |
| Contact Resistance | - Per MIL-STD-1344A method 3002.1 |
| Insulation Resistance | - Per MIL-STD-1344A method 3003.1 |
| Solderability | - Per MIL-STD-202F method 208D |

## 0.80mm (.031") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 0.5 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -25°C - +85°C

**Construction-**
Insulator: Color Black, High temperature plastic
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 1.00mm (.039") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 1 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -25°C - +85°C

**Construction-**
Insulator: Color Natural and Brown, High temperature plastic
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 1.25mm (.049") Center spacing FFC/FPC Connector

**Electrical Data-**
Current rating: 1 Amp max.
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 500 MΩ
Operating Temperature: -40°C - +105°C

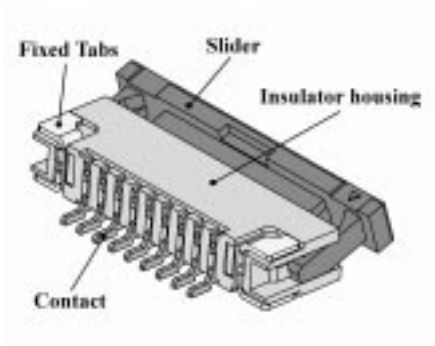
**Construction-**
Insulator: Color Natural and Black, Glass filled polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## 2.54mm (.100") Center spacing FFC/FPC Connector

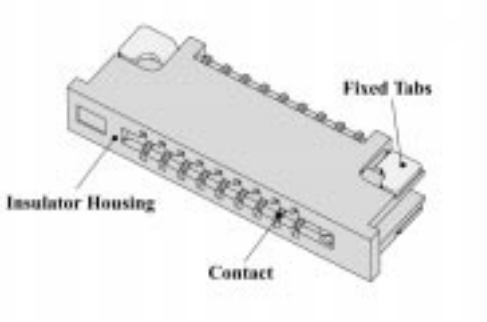
**Electrical Data-**
Current rating: 3 Amps max.
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

**Construction-**
Insulator: Color Black, Glass filled polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Contacts plating: Tin-lead over 1.27µm (50µin) Nickel

## Construction of Connector

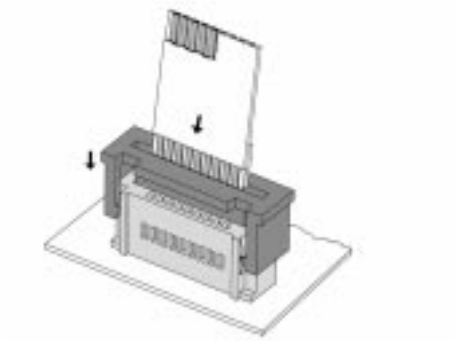



◎ **Zero Insertion Force Type (ZIF)**

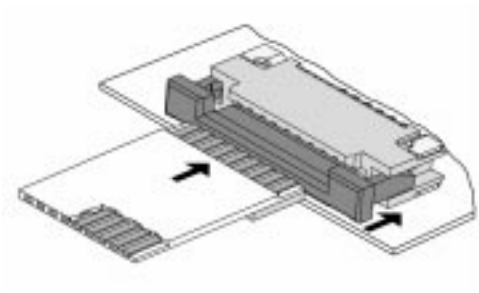



◎ **Low Insertion Force Type (LIF)**

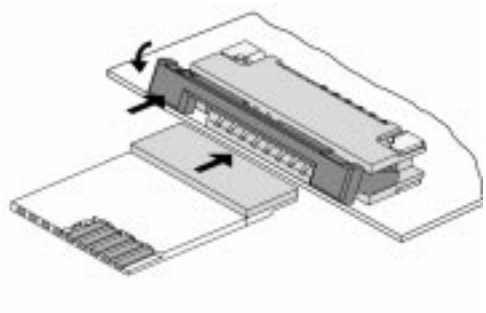
## Applications



◎ **Top Entry**



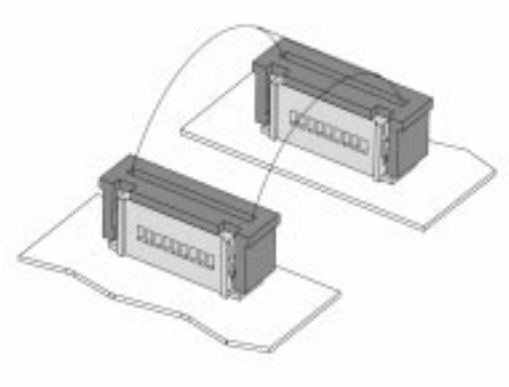
◎ **Side Entry to Upside Contact Connector**



◎ **Side Entry to Downside Contact Connector**

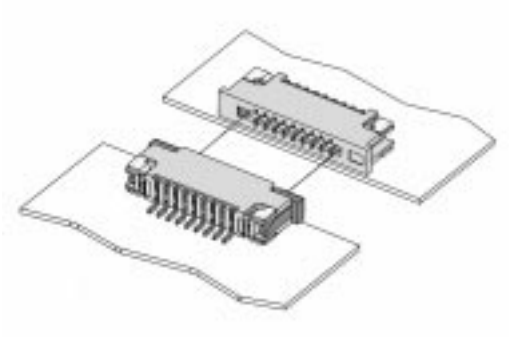
CF

# Connection Combinations of Connector for FFC Cable



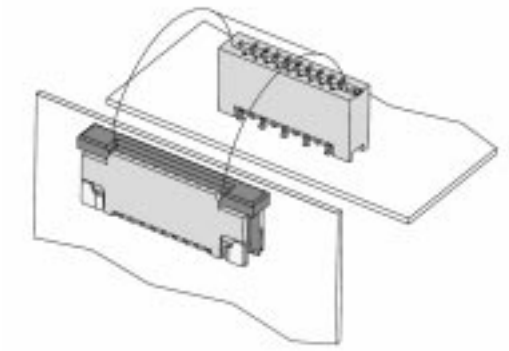
## Both ends with Zero insertion Force Type Connector

◎ Top Entry to Top Entry



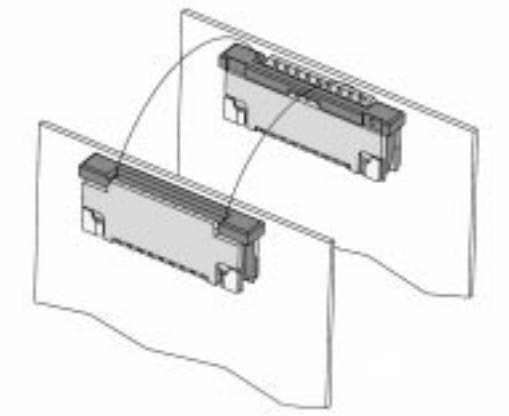
## Low insertion Force Connector to Zero insertion Force Connector

◎ Side Entry to Side Entry



## One end with Low insertion Force Connector to Zero insertion Force Connector at the other end

◎ Top Entry to Side Entry

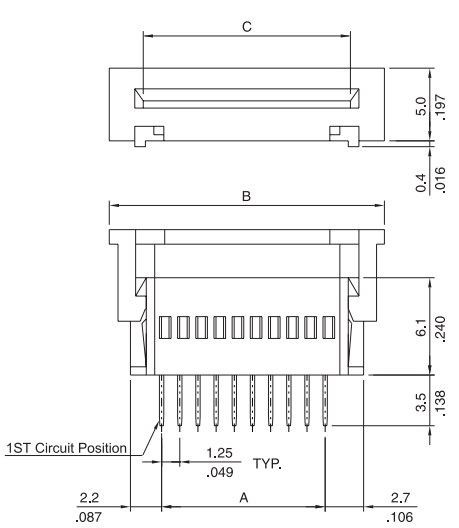


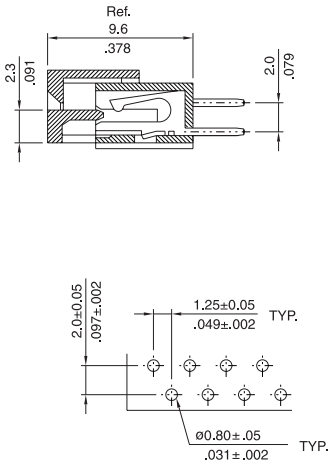
## Both ends with Zero insertion Force Connector

◎ Side Entry to Side Entry

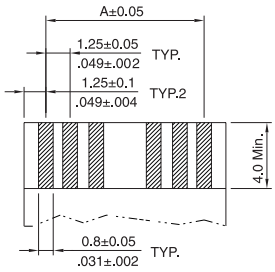
# CF01 Series 1.25mm(.049") ZIF FFC/FPC Connectors

◎ Standard with Tube packing
◎ Tin-lead plated contact
◎ Insulation: Glass filled polyester UL 94V-0, Color Nature
◎ Accommodated 0.3mm FFC/FPC thickness



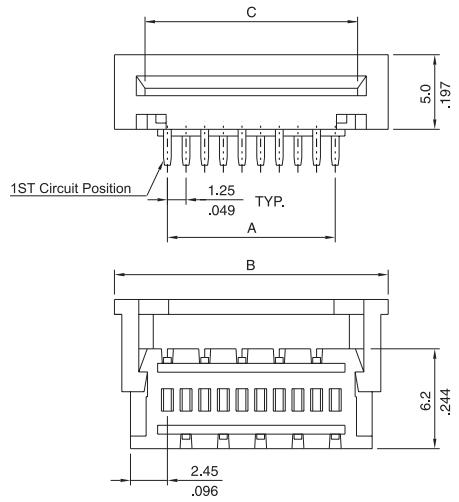



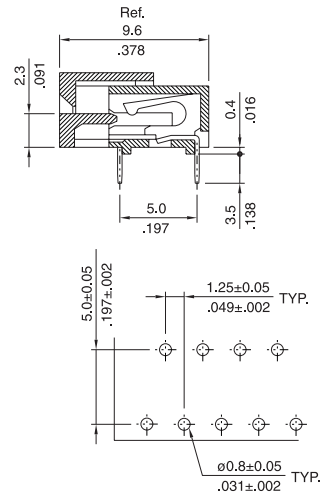

Recommended P.C. Board Layout



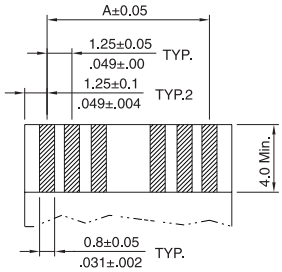

Accommodated FFC/FPC

A = 1.25 * No. of Spaces
B = A + 7.1
C = A + 2.7
* Available in 3 through 32 circuits




Recommended P.C. Board Layout




Accommodated FFC/FPC

A = 1.25 * No. of Spaces
B = A + 7.1
C = A + 2.7
* Available in 3 through 32 circuits

## Ordering Code

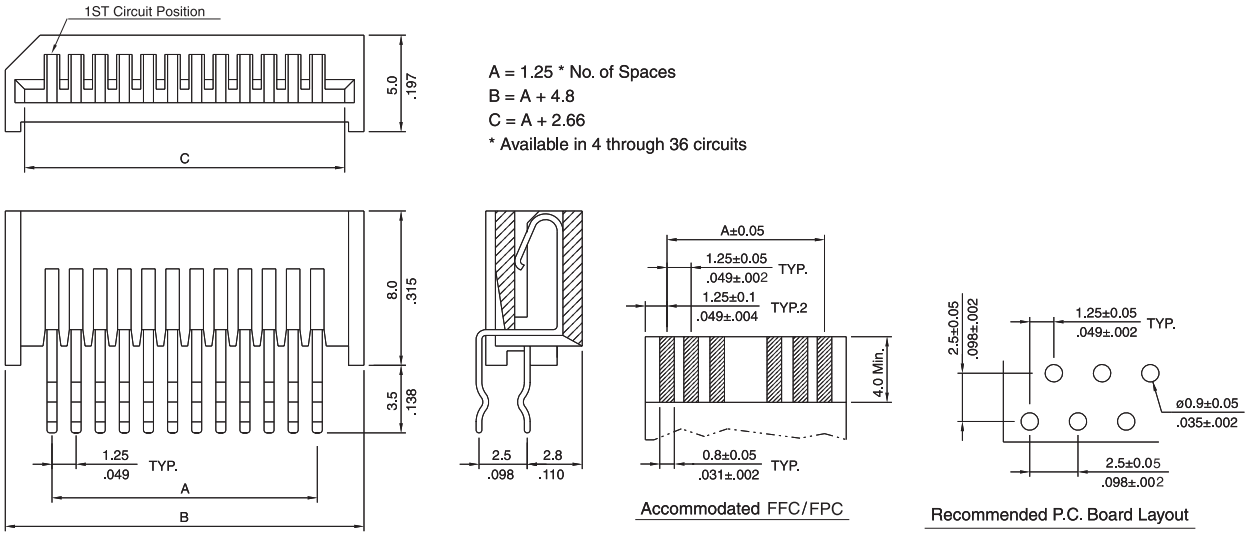
| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ |
|---|---|---|---|---|---|
| CF01 | 32 | 1 | V | 0 | 00 |

❶ Series No.
❷ Contacts : 03 to 32
❸ Plating code:
1= Tin-lead over Nickel
❹ Entry option:
V= Straight
H= Right angle
❺ Color: 0= Nature
❻ Other options:
00= Standard
* Special option Consult manufacturer

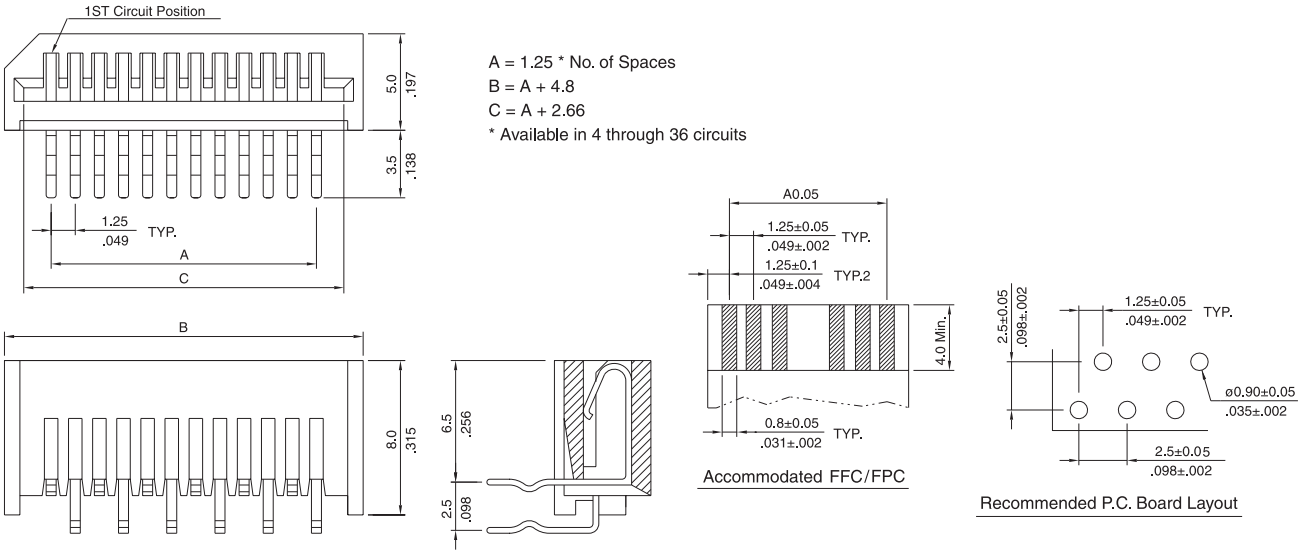
CF

# **CF02** Series 1.25mm(.049") FFC/FPC Connectors

◎ Standard with Tube packing
◎ Tin-lead plated contact with kink tail
◎ Insulation: Glass filled polyester UL 94V-0, Color Black
◎ Accommodated 0.3mm FFC/FPC thickness




A = 1.25 * No. of Spaces
B = A + 4.8
C = A + 2.66
* Available in 4 through 36 circuits




A = 1.25 * No. of Spaces
B = A + 4.8
C = A + 2.66
* Available in 4 through 36 circuits

## Ordering Code

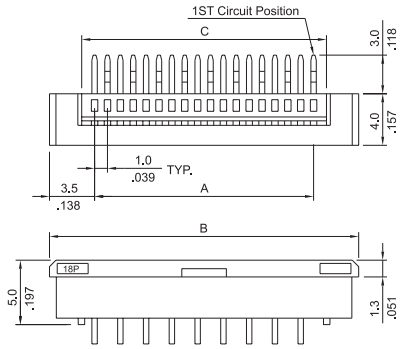
| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ |
|---|---|---|---|---|---|
| CF02 | 36 | 1 | V | 1 | 00 |

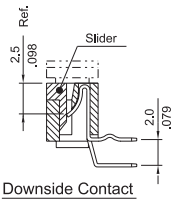
❶ Series No.
❷ Contacts : 04 to 36
❸ Plating code:
1= Tin-lead over Nickel
❹ Entry option:
V= Straight
H= Right angle
❺ Color: 1= Black
❻ Other options:
00= Standard
* Special option Consult manufacturer

CF

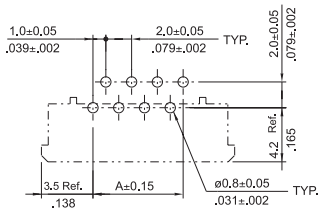
# CF04 Series 1.00mm(.039") DIP ZIF FFC/FPC Connectors

◎ Standard with Tube packing
◎ Tin-lead plated contact
◎ Insulation: Glass filled Nylon 46 UL 94V-0, Color White
◎ Slider: Glass filled PPS UL 94V-0, Color Brown
◎ Options upside contact or downside contact for right angle version



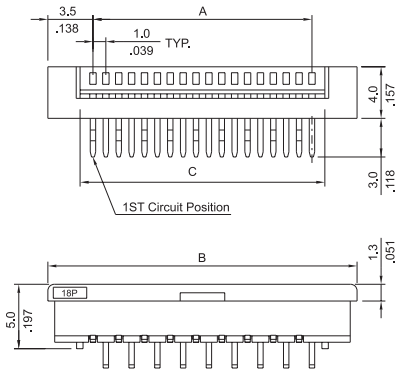



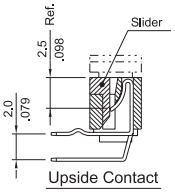

Downside Contact



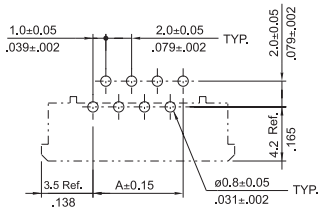

Recommended P.C. Board Layout

A = 1.00 * No. of Spaces
B = A + 7.0
C = A + 2.2
* Available in 4 through 32 circuits

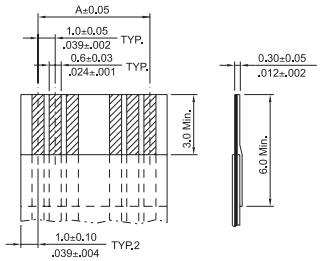


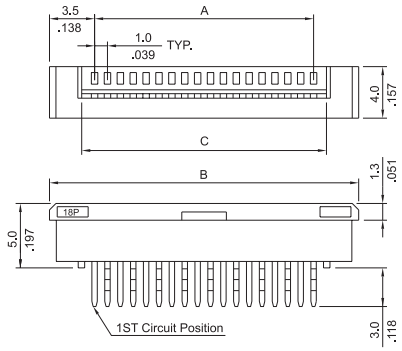

Upside Contact

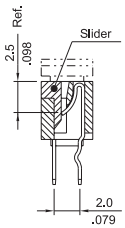



Recommended P.C. Board Layout

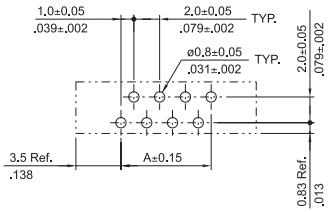



Accommodated FFC

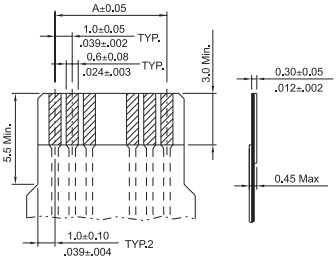



Vertical Type




Recommended P.C. Board Layout




Accommodated FPC

## Ordering Code

| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ | ❼ |
|---|---|---|---|---|---|---|
| CF04 | 32 | 1 | H | 0 | D | 0 |

❶ Series No.
❷ Circuits : 04 to 32
❸ Plating code:
1= Tin-lead over Nickel

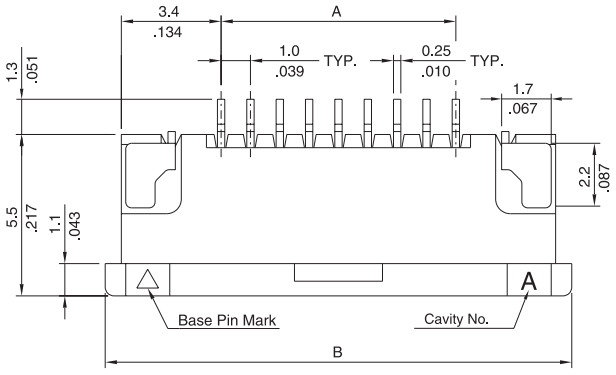
❹ Entry option:
V= Top entry
H= Side entry
❺ Color: 0= White

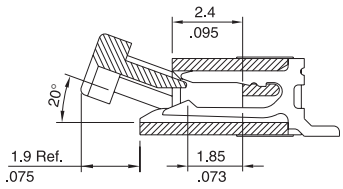
❻ Contact style:
0= Vertical type
D= Downside contact (For Side entry)
U= Upside contact (For Side entry)
❼ Other options:
0= Standard
* Special option Consult manufacturer

CF

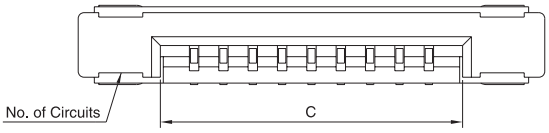
# CF07 Series 1.00mm(.039") SMT ZIF FFC/FPC Downside Connectors

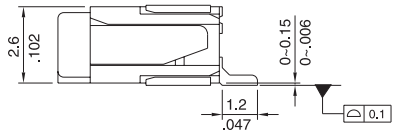
◎ Tin-lead plated Phosphor Bronze Downside contact
◎ Insulation: Glass filled Nylon 6T UL 94V-0, Color Nature
◎ Slider: High temperature plastic UL 94V-0, Color Brown
◎ Actuator designed easy for FFC/FPC installation
◎ Fully check by CCD and Hi-Pot test
◎ With fixed metal tabs to secure connector in place
◎ Available in Tube or Reel packing

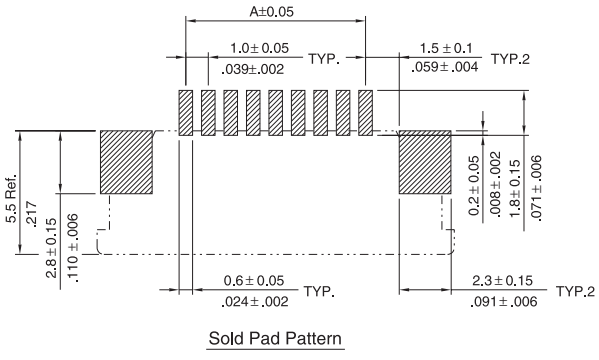


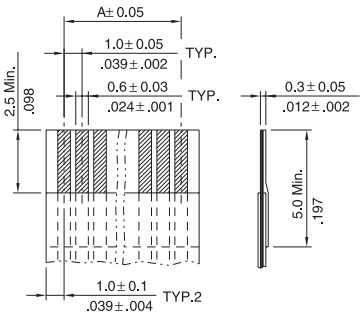

A = 1.0 * No. of Spaces
B = A + 8.0
C = A + 2.3
* Available in 6 through 32 circuits



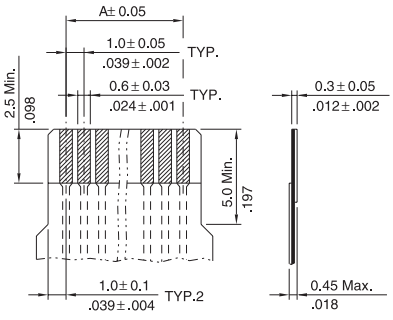



Sold Pad Pattern



Accommodated FFC



Accommodated FPC

## Ordering Code

| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ | ❼ |
|---|---|---|---|---|---|---|
| CF07 | 32 | 1 | D | 0 | R | 0 |

❶ Series No.
❷ Circuits : 06 to 32
❸ Plating code:
1= Tin-lead over Nickel

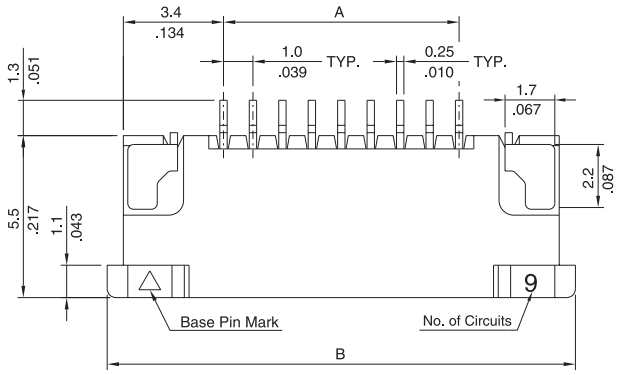
❹ Contact style:
D= Downside contact
❺ Color: 0= Nature

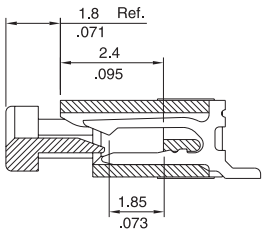
❻ Packing options:
R= Tape & Reel
T= Tube Packing
❼ Other options:
0= Standard
* Special option Consult manufacturer

CF

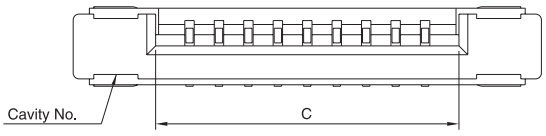
# CF07 Series 1.00mm(.039") SMT ZIF FFC/FPC Upside Connectors

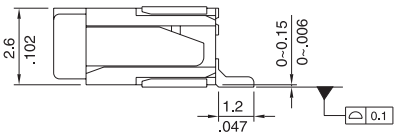
◎ Tin-lead plated Phosphor Bronze Upside contact
◎ Insulation: Glass filled Nylon 6T UL 94V-0, Color Nature
◎ Slider: High temperature plastic UL 94V-0, Color Brown
◎ Actuator designed easy for FFC/FPC installation
◎ Fully check by CCD and Hi-Pot test
◎ With fixed metal tabs to secure connector in place
◎ Available in Tube or Reel packing

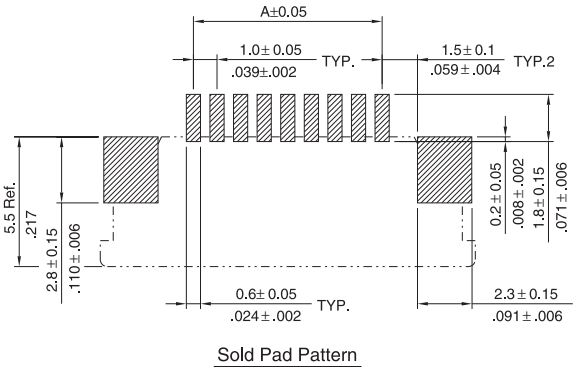


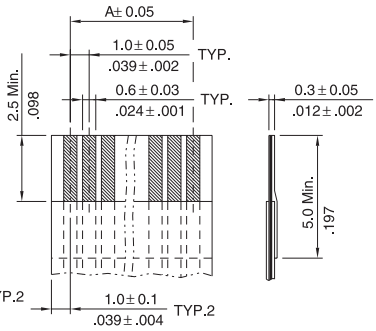

A = 1.0 * No. of Spaces
B = A + 8.0
C = A + 2.3
* Available in 6 through 32 circuits



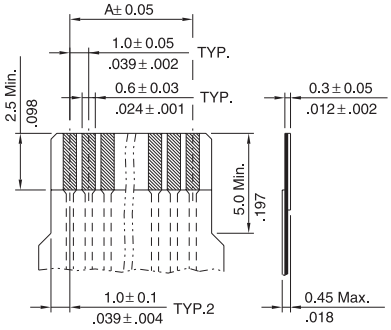




Sold Pad Pattern




Accommodated FFC




Accommodated FPC

## Ordering Code

❶ CF07 ❷ 32 ❸ 1 ❹ U ❺ 0 ❻ R ❼ 0

❶ Series No.
❷ Circuits : 06 to 32
❸ Plating code:
1= Tin-lead over Nickel

❹ Contact style:
U= Upside contact
❺ Color: 0= Nature

❻ Packing options:
R= Tape & Reel
T= Tube Packing
❼ Other options:
0= Standard
* Special option Consult manufacturer

CF