



(2,00mm) .0787"

FCT, EMT SERIES

FLEXCARD™ TERMINAL & SOCKET STRIPS

Mates with:
EMT

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?FCT

Insulator Material:
Black Liquid Crystal Polymer



Terminal Material:
Phosphor Bronze

Current Rating:
3A @ 80°C ambient

Operating Temp Range:
-55°C to +105°C with Tin;
-55°C to +125°C with Gold

Plating:
Sn or Au over
50µ" (1,27µm) Ni

RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Wave, or reflow with
Matte Sn plating

Note: Some lengths, styles and options are non-standard, non-returnable.

| FCT | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | D | CARD SLOT | TAIL OPTION | SL | | | | | | | | | |
|------------|-------------|---|--------------------------------------|--|----------|--|---|------------|---|-------------------------|-----|-------------|--------------|-----|-------------|--------------|--|
| | | 20, 30 & 40 (Call Samtec for other sizes) | Specify LEAD STYLE from chart | <p>-F = Gold flash on post, Matte Tin on tail</p> <p>-L = 10µ" (0,25µm) Gold on post, Matte Tin on tail</p> <p>-S = 30µ" (0,76µm) Gold on post, Matte Tin on tail</p> | | -01 = Accepts (0,80mm) .031" thick card | -RA = Right Angle (Leave blank for vertical version. Style -02 only) | | | | | | | | | | |
| | | <p>No. of positions x (2,00) .0787 + (18,19) .716</p> <p>No. of positions x (2,00) .0787 + (13,87) .546</p> | | <p>(2,00) .0787</p> <p>(3,20) .126</p> <p>(2,00) .0787</p> <p>(44,45) 1.750</p> | | <p>(2,00) .0787</p> <p>(2,29) .090</p> <p>(38,10) 1.500</p> <p>(1,14) .045</p> <p>(1,52) .060 TYP</p> <p>(2,54) .100 DIA TYP</p> | | | | | | | | | | | |
| | | <p>Style -02</p> <p>Style -03</p> | | <p>-RA OPTION</p> | | <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>Y</th> <th>CARD-TO-BOARD SPACE (X)</th> </tr> </thead> <tbody> <tr> <td>-02</td> <td>(6,35) .250</td> <td>(2,60) .1025</td> </tr> <tr> <td>-03</td> <td>(9,53) .375</td> <td>(5,78) .2275</td> </tr> </tbody> </table> | | LEAD STYLE | Y | CARD-TO-BOARD SPACE (X) | -02 | (6,35) .250 | (2,60) .1025 | -03 | (9,53) .375 | (5,78) .2275 | |
| LEAD STYLE | Y | CARD-TO-BOARD SPACE (X) | | | | | | | | | | | | | | | |
| -02 | (6,35) .250 | (2,60) .1025 | | | | | | | | | | | | | | | |
| -03 | (9,53) .375 | (5,78) .2275 | | | | | | | | | | | | | | | |

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?EMT

Insulator Material:
Black LCP



Contact Material:
BeCu

Current Rating:
3A @ 80°C ambient

Operating Temp Range:
-55°C to +125°C

Plating:
Sn or Au over
50µ" (1,27µm) Ni

Contact Resistance:
10 mΩ max

Insertion Depth:
(3,05mm) .120" to
(3,30mm) .130"

Insertion Force:
-01=1.5oz (0,44N) average
-51=2.5oz (0,70N) average

Withdrawal Force:
-01=1.1oz (0,31N) average
-51=1.5oz (0,44N) average

Lead-Free Solderable:
Yes, with Matte Sn plating

SMT Lead Coplanarity:
(0,10mm) .004" max (20)
(0,15mm) .006" max (30-40)

RoHS Compliant:
Yes

| | | | | | |
|------------|----------|--|--|--|----------|
| EMT | 1 | NO. PINS PER ROW | CARD THICKNESS | PLATING OPTION | D |
| | | 20, 30, 40 (Call Samtec for other sizes) | <p>-01 = (0,80mm) .031" thick board (Low Insertion Force)</p> <p>-51 = (0,80mm) .031" thick board (Standard Insertion Force)</p> | <p>-L = 10µ" (0,25µm) Gold on contact, Matte on tail</p> <p>-S = 30µ" (0,76µm) Gold on contact, Matte Tin on tail</p> | |
| | | <p>No. of positions x (2,00) .0787 + (3,56) .140</p> | | <p>(2,08) .082</p> <p>(2,00) .0787</p> <p>(2,00) .0787</p> <p>(4,00) .158</p> <p>(3,56) .140</p> <p>(5,46) .215</p> <p>(0,51) .020</p> <p>(2,74) .108</p> <p>(0,81) .032</p> | |
| | | <p>TIGER EYE CONTACT™</p> | | <p>Due to technical progress, all designs, specifications and components are subject to change without notice.</p> | |

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