

# SCM SERIES, HORIZONTAL WIRE ENTRY PART NUMBERING SCHEME

| REV | ECN  | APP'D       |
|-----|------|-------------|
| A   | 4062 | IQ 9/2/00   |
| B   | 4241 | IQ 1/2/01   |
| C   | 4631 | IQ 10/26/01 |
| D   | 4781 | IQ 3/4/02   |
| E   | 4929 | IQ 8/8/02   |
| F   | 5742 | 2N 12/28/05 |



**RATINGS**

CURRENT - 20A  
VOLTAGE - 300V  
U.L. FILE NO. E83421



**RATINGS**

CURRENT - 20A  
VOLTAGE - 300 V  
CSA FILE NO. LR69703

DIN VDE 0627:1986  
DIN VDE 0110-1:1989  
EN 60947-1:1991  
EN 60947-7-1:1992

CURRENT -20A  
VOLTAGE - 300 V  
TUV FILE NO. 20396

**SCM**

NUMBER OF  
POSITIONS

ORIENTATION &  
NUMBER OF PINS

0 = 1 PIN HORIZONTAL  
1 = 2 PIN HORIZONTAL

CONTACT SPACING  
0 = .200"  
1 = 5MM

L = ACTUATING LEVER  
N = W/O ENDCAP  
(FOR POST-PURCHASE ASSEMBLY)  
LN = ACTUATING LEVER W/O ENDCAP  
BLANK = STANDARD

SPECIAL MARKINGS

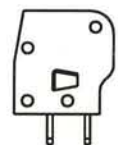
0 = STANDARD  
M = LT TO RT HORIZ.  
A = RT TO LT HORIZ.

COLOR  
0 = BLACK  
G = GREEN  
R = RED  
C = CREME

PERIMETER INDICATES  
CONTACT SPACING



.200"



5MM

## MATERIALS:

HOUSING / LEVER - NYLON, UL 94 V-0  
SPRING CLAMP - STAINLESS STEEL  
CONTACT - BRASS, TIN FINISH

## INSTALLATION RECOMMENDATIONS:

WIRE RANGE - #12-28 AWG, SOLID OR STRANDED  
WIRE STRIP LENGTH - .220

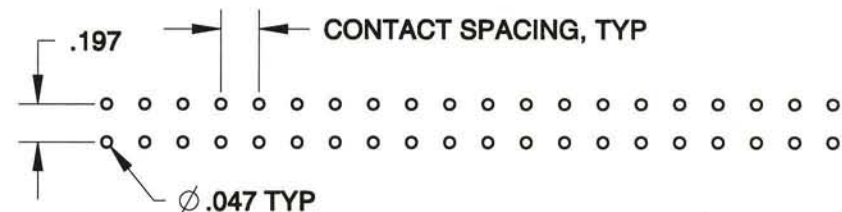
MAX OPERATING TEMP: 125° C

PART WITHSTANDS COMPONENT EQUILIBRIUM  
TEMP. OF 260° C FOR 3 MINUTES DURING  
SOLDERING PROCESS.

## PRINTED CIRCUIT BOARD CONFIGURATION

RECOMMENDED THICKNESS: .062±.008

NOTE: ONLY ONE ROW NEEDED FOR 1 PIN CONNECTORS



## DIMENSIONS

ANSI Y14.5M  
UNITS: INCHES  
Pro/E FILE

## TOLERANCES

.XX ±0.01  
.XXX ±0.005  
ANGLES ±2.0°

## PROJECTION



**Amphenol Pcd**

ENGR

A. PATRIE 06-28-00

CHKD

I. QUINN 8/29/00

APPD

J. CAHALY 8/29/00

## TITLE

**SCM SERIES  
TERMINAL BLOCK ASSEMBLY  
HORIZONTAL WIRE ENTRY**

ORIGINAL  
STAMPED  
IN RED

THIS DOCUMENT CONTAINS  
PROPRIETARY INFORMATION WHICH  
IS THE CONFIDENTIAL PROPERTY  
OF AMPHENOL PCD, INC.  
PEABODY, MA, USA

SIZE

**A**

DWG NO.

**SCM010000**

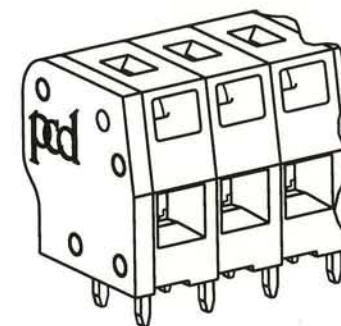
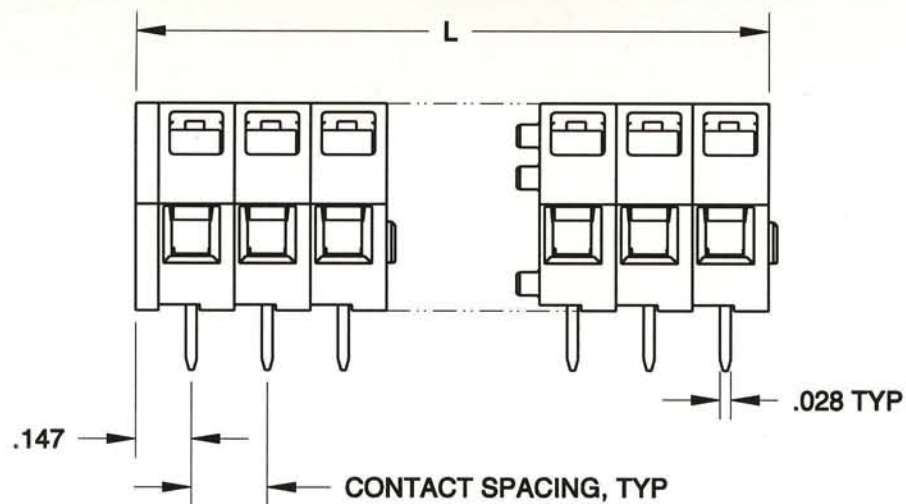
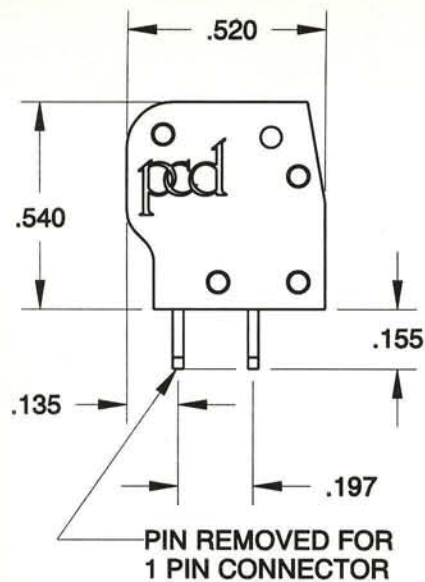
REV

**F**

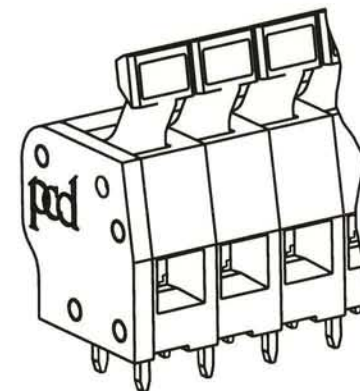
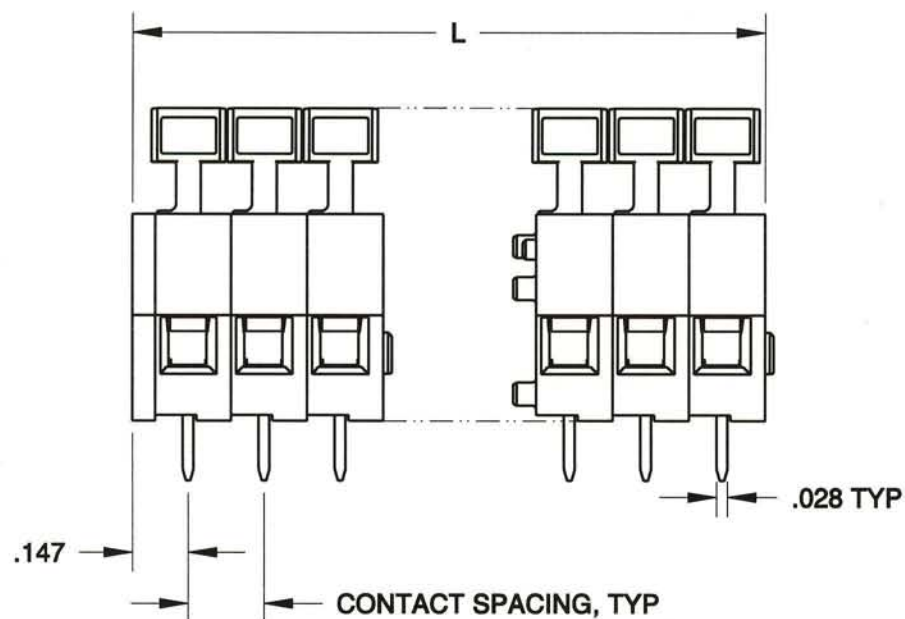
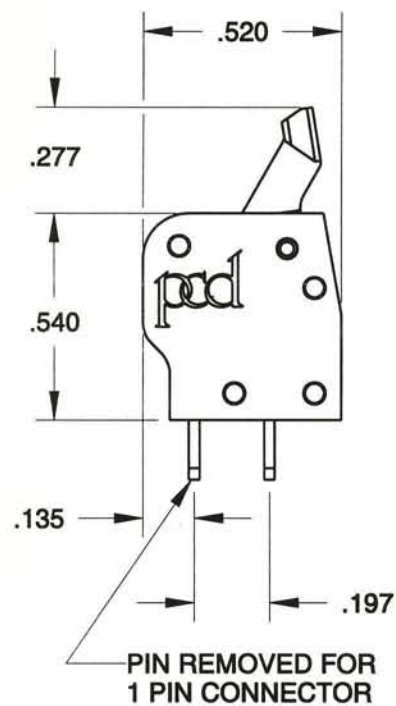
CODE: 58982

SCALE: NONE

SHEET 1 OF 2



STANDARD

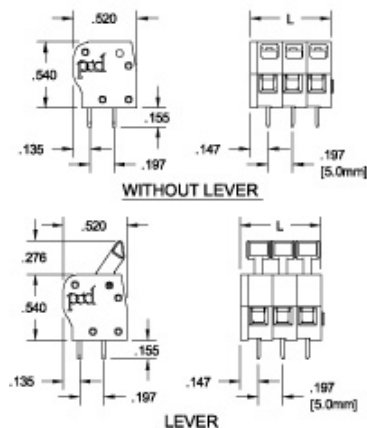


ACTUATING LEVER

L = NUMBER OF POS. X CONTACT SPACING + .060  
TYPICAL ALL CONFIGURATIONS

| SIZE        | DWG NO.     | REV          |
|-------------|-------------|--------------|
| A           | SCM010000   | F            |
| CODE: 58982 | SCALE: NONE | SHEET 2 OF 2 |

## 5.0mm (.197") SCM Wire -to- Board



Download part [PDF File](#)

Download part [DXF File](#)

| Pos | Catalog #<br>w/o Lever | Catalog #<br>Lever | L<br>(mm) |
|-----|------------------------|--------------------|-----------|
| 2   | SCM021100              | SCM021100L         | 11.5      |
| 3   | SCM031100              | SCM031100L         | 16.5      |
| 4   | SCM041100              | SCM041100L         | 21.5      |
| 5   | SCM051100              | SCM051100L         | 26.5      |
| 6   | SCM061100              | SCM061100L         | 31.5      |
| 7   | SCM071100              | SCM071100L         | 36.5      |
| 8   | SCM081100              | SCM081100L         | 41.5      |
| 9   | SCM091100              | SCM091100L         | 46.5      |
| 10  | SCM101100              | SCM101100L         | 51.5      |
| 11  | SCM111100              | SCM111100L         | 56.5      |
| 12  | SCM121100              | SCM121100L         | 61.5      |
| 13  | SCM131100              | SCM131100L         | 66.5      |
| 14  | SCM141100              | SCM141100L         | 71.5      |
| 15  | SCM151100              | SCM151100L         | 76.5      |
| 16  | SCM161100              | SCM161100L         | 81.5      |
| 17  | SCM171100              | SCM171100L         | 86.5      |
| 18  | SCM181100              | SCM181100L         | 91.5      |
| 19  | SCM191100              | SCM191100L         | 96.5      |
| 20  | SCM201100              | SCM201100L         | 101.5     |

Variations

Marking

Product Line Overview

SCM 5.0mm spring clamp terminal blocks are rated at 20A/300V—the highest in the industry—and are supplied in horizontal, angled and vertical configurations.

### Two Modes of Operation

Individual spring contact clamps are depressed to insert or remove wires by either actuating a finger lever or inserting a flat-bladed screwdriver in an actuation slot on the block.

### SMT Compatibility

The SCM is the only spring clamp terminal block available which is suitable for SMT reflow solder PCB manufacturing processes as well as wave solder; providing users with additional flexibility and maximizing production efficiencies by eliminating secondary solder operations. Blocks are molded of ultra-high-temperature, glass-filled polyamide that will withstand temperatures of 260° C during PCB production.

### SPECIFICATIONS:

Current Rating: 20A  
Operating Voltage: 300V  
Insulation Resistance: >103 Megohms  
Dielectric Withstanding: <1600V  
Wire Pullout Force:  
Per UL 486E, Section 14

### MATERIALS:

Housing/Lever: PA, UL 94V-0, black  
Contact: Brass, tin-lead finish  
Spring Clamp: Stainless steel

### INSTALLATION:

Wire Range: 12-28 AWG  
Wire Strip Length: .220"  
Hole Diameter: .047 min.

### APPROVALS:



Consult factory for specific product recognitions

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