



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



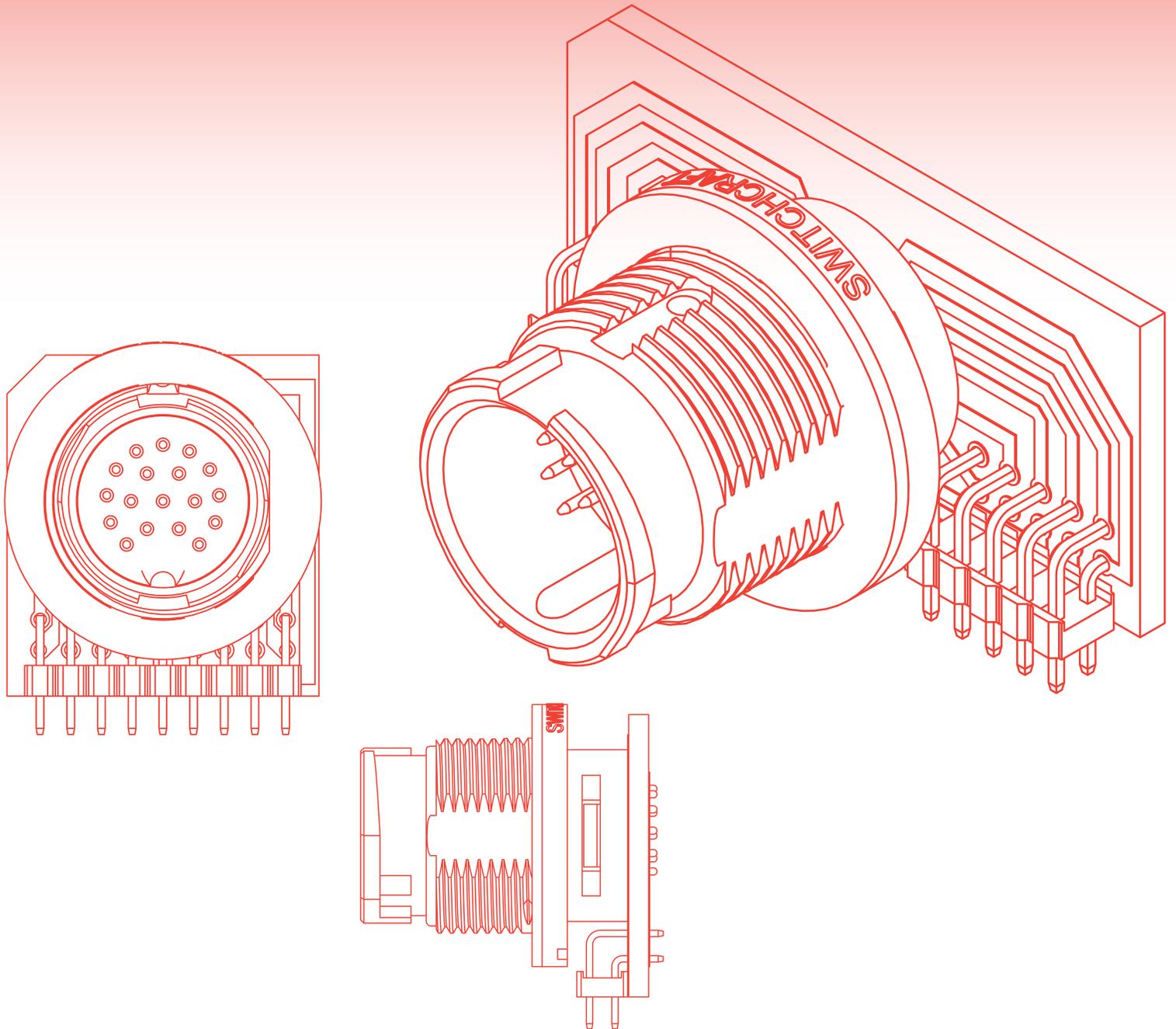
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## EN3<sup>®</sup> RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT

NEW PRODUCT BULLETIN 597

# SWITCHCRAFT<sup>®</sup>

A HEICO COMPANY



Please visit [www.switchcraft.com](http://www.switchcraft.com) for the most up-to-date product specifications. Made in USA.

# EN3® RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT

NEW PRODUCT BULLETIN 597



## FEATURES & BENEFITS

- Sealed to IP68 NEMA 250 (6P)
- O-ring free design
- Easily mounts to PC boards
- Narrow or wide versions to fit your applications
- Gold plated contacts standard

## APPLICATIONS

- Any sealed data transmission
- Military or industrial GPS location devices
- Instrumentation
- Medical data carts
- Marine Applications
- Transportation
- General industrial electronic applications



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# EN3® RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT

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## SPECIFICATIONS

### Mechanical Specifications

Vibration:	Mil-Std 202G Method 201A
Life:	600 insertion/withdrawal cycles minimum
Hex Nut Torque:	8-10 in/lb tightening torque

### Electrical Specifications

Dielectric Withstanding Voltage:	Tested at 500 VAC
Insulation Resistance:	100 MΩ minimum at 77°F
Contact Resistance (2-8 #20 contact):	15 mΩ maximum initial 30 mΩ maximum after environmental
Contact Resistance (9-18 #26 contact):	30 mΩ maximum initial 50 mΩ maximum after environmental
Current Rating:	2.0 A (9-18 #26 contact) 4.0 A (5-8 #20 contact) 5.0 A (2-4 #20 contact)

### Environmental Specifications

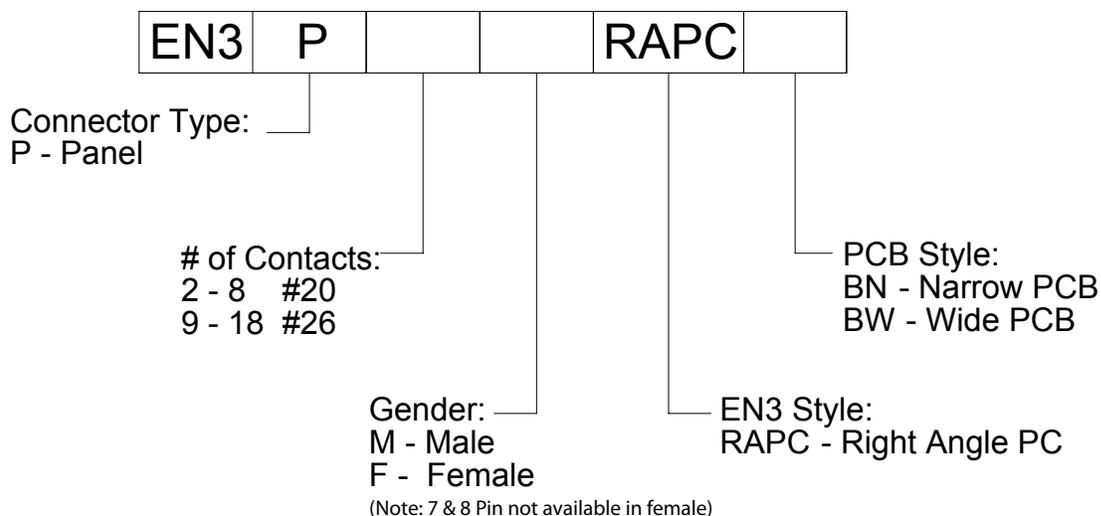
Temperature Rating:	-40°C to +65°C (-40°F to +149°F)
Moisture Resistance:	Mil-Std 202G Method 106G
Insulation Resistance:	Mil-Std 202G Method 302
Thermal Shock:	Mil-Std 202G Method 107G
Salt Spray:	Mil-Std 202G Method 101E

### Material Specifications

Panel Connector Shell, Locking Disk:	Thermoplastic, UL94V-0
Connector Shell Interior:	Thermoplastic Elastomer, UL94HB
Contacts:	Copper Alloy, Gold over Nickel Plate
PCB:	FR-4
Header Insulator:	Thermoplastic, UL94V-0

### Product Ratings:

IEC 60529 IP16/IP18. IEC 60529 IP66. IEC 60529 IP68 24 hours at 2 meters of water.  
NEMA 250 6P 24 hours at 2 meters of water. CFR 46 Part 110.20

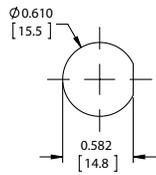


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# EN3® RIGHT ANGLE PC BOARD MOUNT 2-18 CONTACT

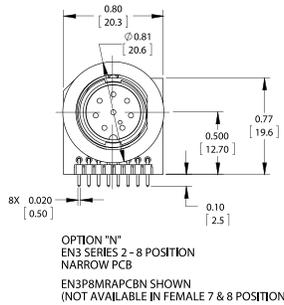
## NEW PRODUCT BULLETIN 597

### EN3 2-8 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR

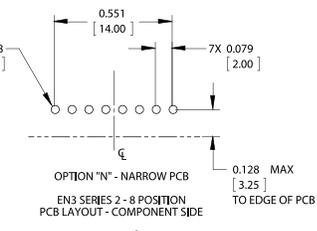
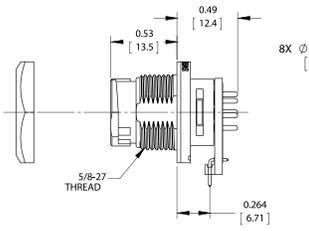


RECOMMENDED  
PANEL CUT-OUT  
0.188 MAX PANEL  
THICKNESS

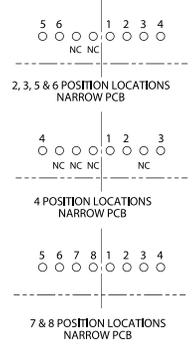
MOUNTING NUT  
8-10 INCH-LBS  
MAX TORQUE



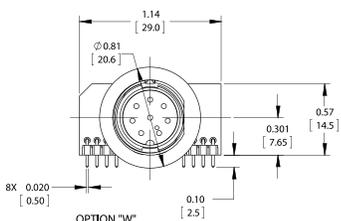
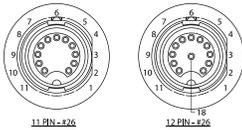
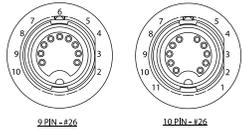
OPTION "N"  
EN3 SERIES 2 - 8 POSITION  
NARROW PCB  
EN3P8MRAPCBN SHOWN  
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



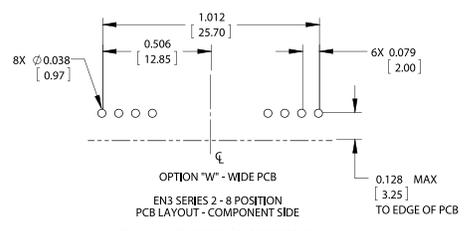
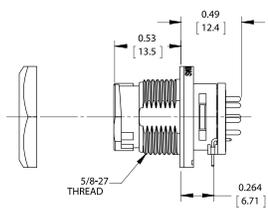
OPTION "N" - NARROW PCB  
EN3 SERIES 2 - 8 POSITION  
PCB LAYOUT - COMPONENT SIDE  
NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR



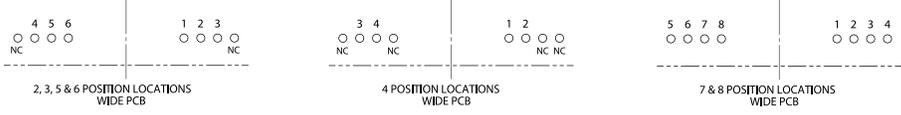
### EN3 2-8 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



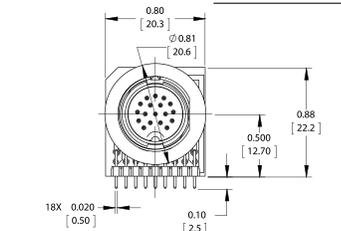
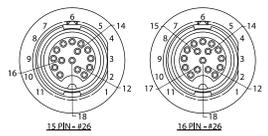
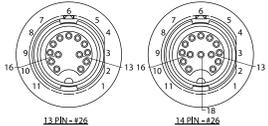
OPTION "W"  
EN3 SERIES 2 - 8 POSITION  
WIDE PCB  
EN3P8MRAPCBW SHOWN  
(NOT AVAILABLE IN FEMALE 7 & 8 POSITION)



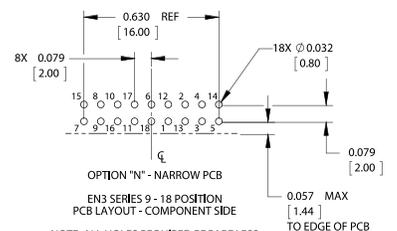
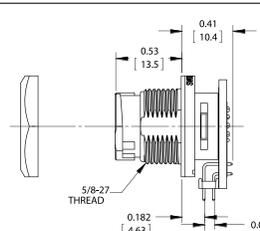
OPTION "W" - WIDE PCB  
EN3 SERIES 2 - 8 POSITION  
PCB LAYOUT - COMPONENT SIDE  
NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR



### EN3 9-18 PIN RIGHT-ANGLE NARROW PCB PANEL CONNECTOR

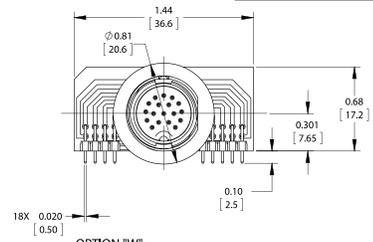
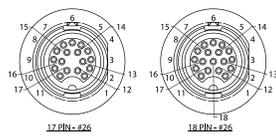


OPTION "N"  
EN3 SERIES 9 - 18 POSITION  
NARROW PCB  
EN3P18MRAPCBN SHOWN

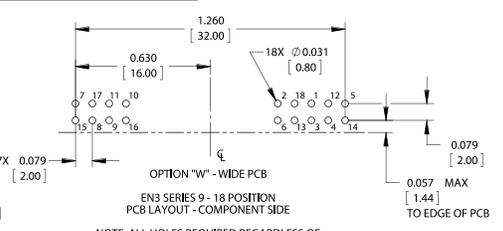
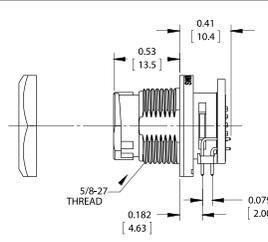


OPTION "N" - NARROW PCB  
EN3 SERIES 9 - 18 POSITION  
PCB LAYOUT - COMPONENT SIDE  
NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR  
SEE EN3 9-18 PIN LOCATIONS

### EN3 9-18 PIN RIGHT-ANGLE WIDE PCB PANEL CONNECTOR



OPTION "W"  
EN3 SERIES 9 - 18 POSITION  
WIDE PCB  
EN3P18MRAPCBW SHOWN



OPTION "W" - WIDE PCB  
EN3 SERIES 9 - 18 POSITION  
PCB LAYOUT - COMPONENT SIDE  
NOTE: ALL HOLES REQUIRED REGARDLESS  
OF NUMBER OF POSITIONS OF CONNECTOR  
SEE EN3 9-18 PIN LOCATIONS

EN3 9-18 PIN LOCATIONS  
FRONT VIEW OF CONNECTOR  
(MATING SIDE)

NUMBERS SHOWN FOR REFERENCE.  
THEY DO NOT APPEAR ON  
ACTUAL PART

All dimensions are for reference only.



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