



# RIGHT ANGLE D-SUB DSM-318, DSM-590 SERIES

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?DSM-318](http://www.samtec.com?DSM-318) or [www.samtec.com?DSM-590](http://www.samtec.com?DSM-590)

**Insulator Material:**  
Black High Temperature Thermoplastic  
**Pin Material:**  
Brass  
**Socket Material:**  
Phosphor Bronze  
**Shell Material:**  
Steel  
**Plating:**  
Gold on Contacts, Nickel on Shell, Tin-Lead on Tails  
**Operating Temp Range:**  
-55°C to +125°C  
**Current Rating:**  
5 A per contact  
**Voltage Rating:**  
250 VAC  
**Contact Resistance:**  
20 mΩ max  
**Minimum Cycles:**  
1000  
**Packaging:**  
Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation are available upon request.



**DSM 318**

**SHELL SIZE-POSITIONS**

-E-09 = 9 Positions  
-A-15 = 15 Positions  
-B-25 = 25 Positions  
-C-37 = 37 Positions

**GENDER**

-P = Pin  
-S = Socket

**PLATING**

-F = Gold Flash on Mating Area, Tin-Lead on Tails

**BOARD MOUNT**

(Required in callout)  
-LB = "L" Bracket  
-FB = Forked Board Locks

**FACE MOUNT**

(Required in callout)  
-FT = #4-40 Flush Threaded Inserts  
-RJ = #4-40 Removable Jackscrews in #4-40 Threaded Inserts  
-MT = M3 Flush Threaded Inserts  
-MJ = M3 Removable Jackscrews in M3 Threaded Inserts  
-NT = Non-Threaded Rivet

(2,77) .109 (7,90) .311 (8,36) .329 (12,50) .492 (6,00) .236 (2,79) .110 (8,08) .318 (2,84) .112

(3,81) .150 (3,68) .145

#4-40 or M3 Threaded Insert

Removable #4-40 or M3 Jackscrew

Top Ground Strap (3,18) .125 DIA (9,52) .375

SHELL SIZE-POSITION	A	B	C (-P)	C (-S)
-E-09	± (0,25) .010	± (0,25) .010	± (0,25) .010	± (0,25) .010
-A-15	(30,81) 1.213	(24,99) .984	(16,92) .666	(16,33) .643
-B-25	(39,14) 1.541	(33,32) 1.312	(25,25) .994	(24,66) .971
-C-37	(53,04) 2.088	(47,04) 1.852	(38,96) 1.534	(38,38) 1.511

**DSM 590**

**SHELL SIZE-POSITIONS**

-E-09 = 9 Positions  
-A-15 = 15 Positions  
-B-25 = 25 Positions  
-C-37 = 37 Positions

**GENDER**

-P = Pin  
-S = Socket

**PLATING**

-F = Gold Flash on Mating Area, Tin-Lead on Tails

**BOARD MOUNT**

(Required in callout)  
-T2 = Top Side Ground on Full Flange  
-F2 = Forked Board Locks on Full Flange

**FACE MOUNT**

(Required in callout)  
-FT = #4-40 Flush Threaded Inserts  
-RJ = #4-40 Removable Jackscrews in #4-40 Threaded Inserts  
-MT = M3 Flush Threaded Inserts  
-MJ = M3 Removable Jackscrews in M3 Threaded Inserts  
-NT = Non-Threaded Rivet

(2,77) .109 (7,90) .311 (8,36) .329 (12,50) .492 (6,00) .236 (2,79) .110 (15,00) .590 (2,84) .112

(3,81) .150 (3,68) .145

#4-40 or M3 Threaded Insert

Removable #4-40 or M3 Jackscrew

Top Ground Strap (3,18) .125 DIA (16,00) .630

SHELL SIZE-POSITION	A	B	C (-P)	C (-S)
-E-09	± (0,25) .010	± (0,25) .010	± (0,25) .010	± (0,25) .010
-A-15	(30,81) 1.213	(24,99) .984	(16,92) .666	(16,33) .643
-B-25	(39,14) 1.541	(33,32) 1.312	(25,25) .994	(24,66) .971
-C-37	(53,04) 2.088	(47,04) 1.852	(38,96) 1.534	(38,38) 1.511

Due to technical progress, all designs, specifications and components are subject to change without notice.

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