

Series 800 Mighty Mouse, UN Mating Thread PCB Mount Right Angle Header Receptacle

800-032 Ordering Information



Series 800



Printed Circuit Board Right Angle I/O Header features gold-plated size #23 contacts. UN mating thread, and aluminum or stainless steel shells. Rubber seal protects mated connectors from water ingress. 5 amp current rating, 500 VAC voltage rating. Contacts are factory-installed and are non-removable. Thermoplastic rear housing has #2-56 threaded inserts for attaching to circuit board with customer-supplied mounting screws. Connectors attach to chassis or panel with low-profile jam-nut and O-ring. Available in six contact arrangements, these right angle headers are ideal for hostile environments where 100/100BASE-T Ethernet RJ-45 commercial-grade jacks are not advised.

C

How To Order						
Sample Part Number		800-032	-07	M	7-10	P Z
Series	800-032 PCB Receptacle					
Shell Style	-07 = Jam-Nut					
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) RoHS Compliant M = Aluminum / Electroless Nickel RoHS Compliant NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate MT = Aluminum / Nickel-PTFE RoHS Compliant Z1 = Stainless Steel / Passivated RoHS Compliant					
Shell Size - Insert Arrangement	5-3, 6-1, 6-4, 6-6, 6-7, 7-1, 7-10, 8-2, 8-13, 9-4, 9-19, 9-200, 10-2, 10-5, 10-201					
Contact Type	P = Pin, PC Tail S = Socket, PC Tail					
Shell Key Position (See Table I)	N = Normal X = Pos. X Y = Pos. Y Z = Pos. Z					

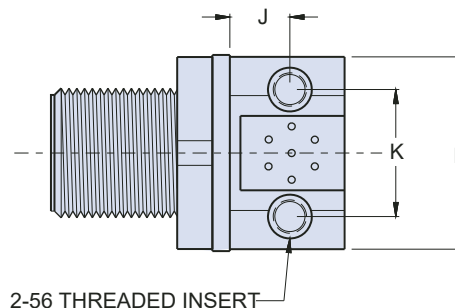
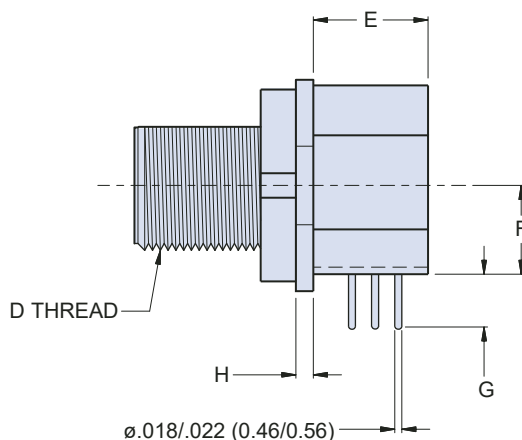
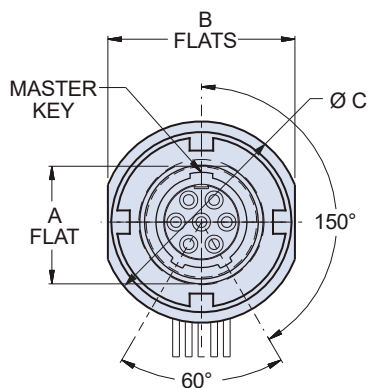
Table I: Shell Keyway Positions			
Keyway Position	Keyway Rotation	Shell Size 5 and 6	Shell Size 7 thru 12
N Normal	150°		
X	140°		
Y	130°		
Z	120°		
Shell sizes 5 thru 6 and insert arrangement 8-13: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position			

Dimensions in Inches (millimeters) are subject to change without notice.



Series 800 Mighty Mouse, UN Mating Thread PCB Mount Right Angle Header Receptacle 800-032 Dimensions

Jam-nut mount receptacle - shell style 07



Material / finish:

- Receptacle shell, jam-nut: aluminum alloy or CRES / see How to Order Table
- Insulator: LCP or epoxy / N.A.
- Interfacial seal, O-ring: fluorosilicone
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Class 1.25, over a suitable underplate
- Potting: epoxy

Dimensions

Size - Arr	A Flat ±.005 (±0.13)	B Flat	Ø C	D Threads	E	F	G ±.035 (±0.89)	H ±.005 (±0.13)	J	K	L
5-3	.282 (7.16) .291 (7.39)	.497 (12.62)	.538 (13.67)	.3125-28 UN-2A	.260 (6.60)	.235 (5.97)	.257 (6.53)	.050 (1.27)	.165 (4.19)	.310 (7.87)	.49 (12.45)
6-1		.559 (14.20)	.602 (15.29)	.3750-28 UN-2A	.350 (8.89)	.225 (5.72)	.285 (7.24)	.050 (1.27)	.224 (5.69)	.385 (9.78)	.58 (14.73)
6-4	.350 (8.89) .359 (9.12)	.559 (14.20)	.602 (15.29)	.3750-28 UN-2A	.330 (8.38)	.225 (5.72)	.285 (7.24)	.050 (1.27)	.224 (5.69)	.385 (9.78)	.58 (14.73)
6-6,6-7		.559 (14.20)	.602 (15.29)	.3750-28 UN-2A	.350 (8.89)	.225 (5.72)	.285 (7.24)	.050 (1.27)	.187 (4.75)	.408 (10.36)	.58 (14.73)
7-1	.409 (10.39)	.643 (16.33)	.664 (16.87)	.4375-28 UNEF-2A	.350 (8.89)	.296 (7.52)	.200 (5.08)	.092 (2.34)	.170 (4.32)	.452 (11.48)	.71 (18.03)
7-10	.418 (10.62)	.643 (16.33)	.664 (16.87)	.4375-28 UNEF-2A	.350 (8.89)	.296 (7.52)	.274 (6.96)	.092 (2.34)	.170 (4.32)	.452 (11.48)	.71 (18.03)
8-2	.471 (11.96)	.731 (18.57)	.770 (19.56)	.5000-28 UN-2A	.490 (12.45)	.320 (8.13)	.336 (8.53)	.092 (2.34)	.230 (5.84)	.490 (12.45)	.71 (18.03)
8-13	.480 (12.19)	.731 (18.57)	.770 (19.56)	.5000-32 UN-2A	.490 (12.45)	.320 (8.13)	.315 (8.00)	.092 (2.34)	.230 (5.84)	.490 (12.45)	.71 (18.03)
9-4		.803 (20.40)	.872 (22.15)	.5625-28 UN-2A	.490 (12.45)	.362 (9.19)	.288 (7.32)	.092 (2.34)	.342 (8.69)	.600 (15.24)	.80 (20.32)
9-19	.528 (13.41)	.803 (20.40)	.872 (22.15)	.5625-32 UN-2A	.490 (12.45)	.362 (9.19)	.283 (7.19)	.092 (2.34)	.342 (8.69)	.600 (15.24)	.80 (20.32)
9-200	.537 (13.64)	.803 (20.40)	.872 (22.15)	.5625-28 UN-2A	.490 (12.45)	.362 (9.19)	.240 (6.10)	.092 (2.34)	.342 (8.69)	.600 (15.24)	.80 (20.32)
10-2		.940 (23.88)	.976 (24.79)	.6250-28 UN-2A	.570 (14.48)	.397 (10.08)	.272 (6.91)	.092 (2.34)	.362 (9.19)	.640 (16.26)	.84 (21.34)
10-5	.602 (15.29)	.940 (23.88)	.976 (24.79)	.6250-28 UN-2A	.570 (14.48)	.397 (10.08)	.305 (7.75)	.092 (2.34)	.362 (9.19)	.640 (16.26)	.84 (21.34)
10-201	.611 (15.52)	.940 (23.88)	.976 (24.79)	.6250-28 UN-2A	.570 (14.48)	.397 (10.08)	.272 (6.91)	.092 (2.34)	.362 (9.19)	.640 (16.26)	.84 (21.34)

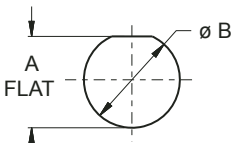
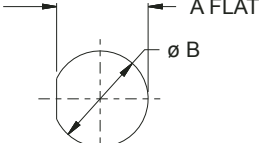
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Series 800 Mighty Mouse, UN Mating Thread PCB Mount Right Angle Header Receptacle 800-032 Dimensions

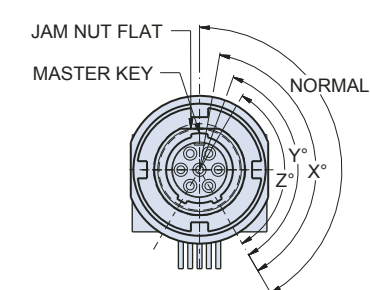


Series 800

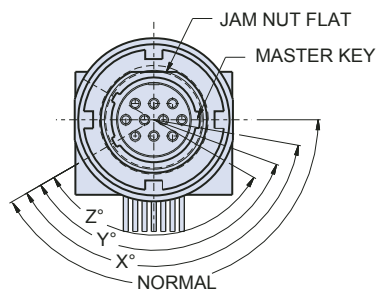
C

Panel Cutouts for Right Angle PCB Headers		
	ShellSize	A Flat ϕB
 RECOMMENDED PANEL CUTOUTS EXCEPT 8-13	5	.299 (7.59) .295 (7.49)
	6	.362 (9.19) .358 (9.09)
 RECOMMENDED PANEL CUTOUT FOR 8-13	7	.428 (10.87) .424 (10.77)
	8	.483 (12.27) .479 (12.17)
	9	.541 (13.74) .537 (13.64)
	10	.541 (13.74) .537 (13.64)

FACE VIEW AND KEYWAY POSITION OF RIGHT ANGLE PCB HEADERS

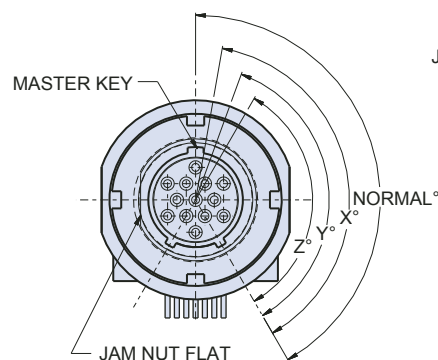


JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 5 AND 6
SOCKET FACE SHOWN

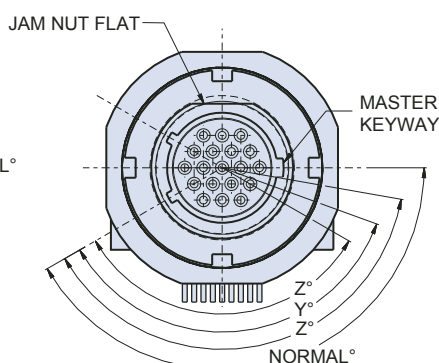


JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 7
SOCKET FACE SHOWN

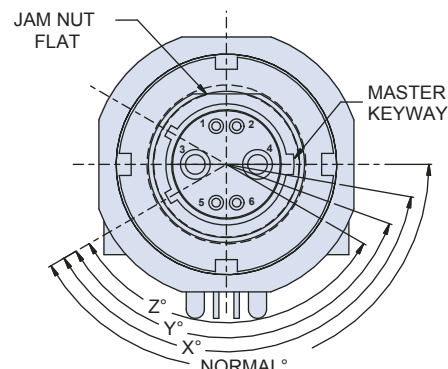
Key Positions	
Key Position	Key Rotation
N Normal	150°
X	140°
Y	130°
Z	120°



JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 8
SOCKET FACE SHOWN



JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 9
SOCKET FACE SHOWN



JAM NUT FLAT AND KEYWAY LOCATIONS
SHELL SIZE 10
SOCKET FACE SHOWN

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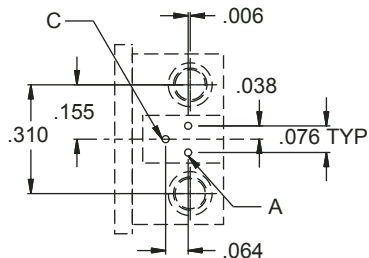


Series 800 Mighty Mouse, UN Mating Thread PCB Mount Right Angle Header Receptacle 800-032 PCB Mounting Footprints

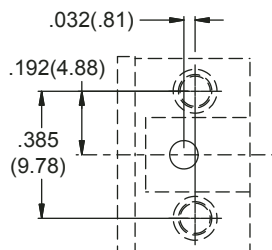
RIGHT ANGLE PCB FOOTPRINTS: SOCKET CONNECTORS SHOWN

Patterns shown are for component mounting side of PCB.

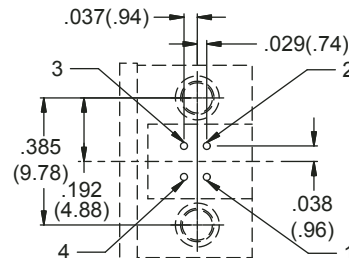
Contacts are .022 (0.56) max. diameter, mounting holes are 2-56 threaded inserts



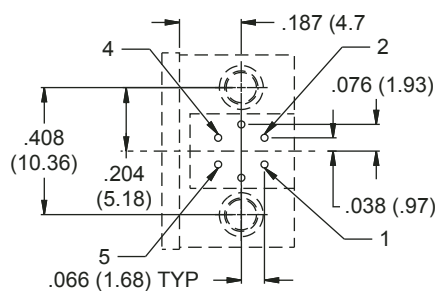
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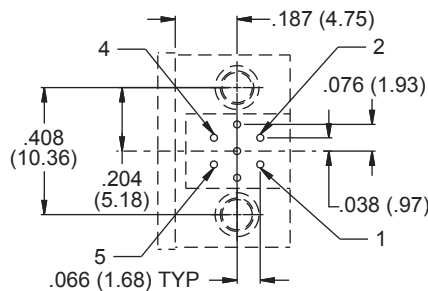
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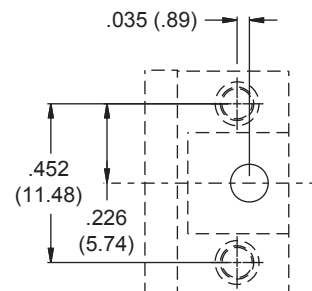
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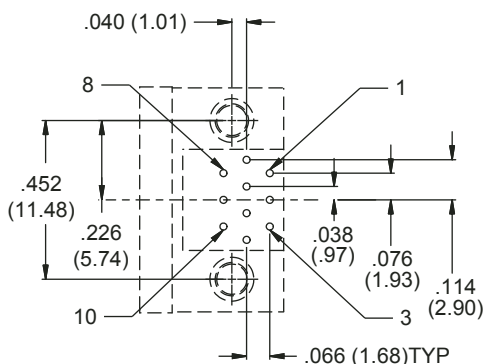
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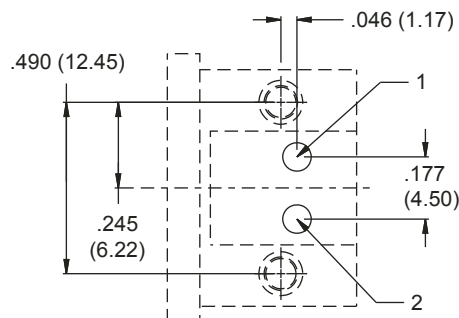
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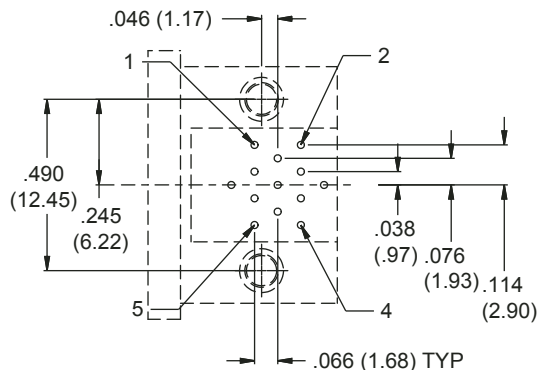
7-1



7-10



8-2



8-13

Rev. 11/30/17

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Series 80 Mighty Mouse

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Rev. 06/05/19

Series 800 Mighty Mouse, UN Mating Thread PCB Mount Right Angle Header Receptacle 800-032 PCB Mounting Footprints

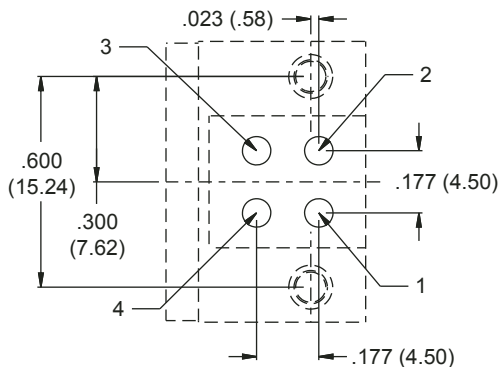


Series 800

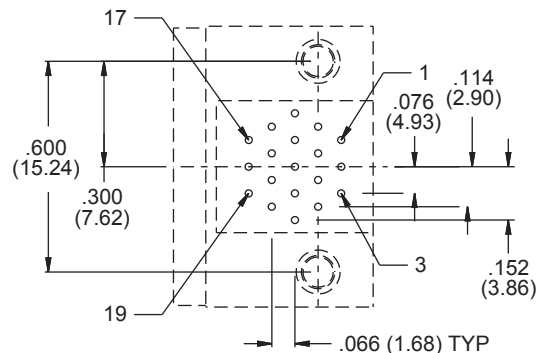
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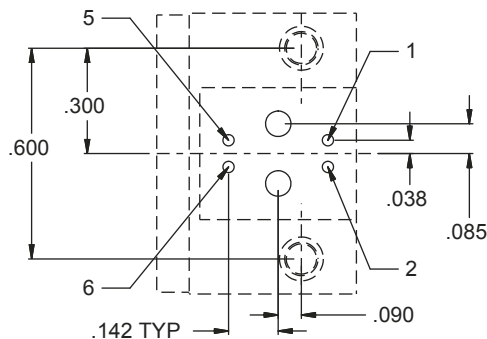
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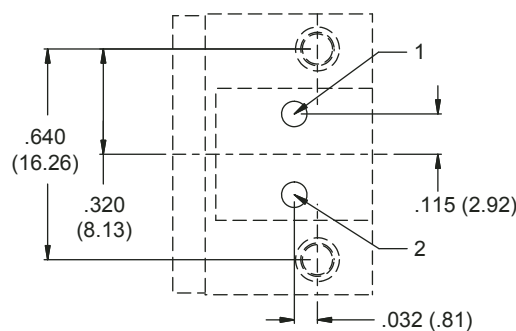
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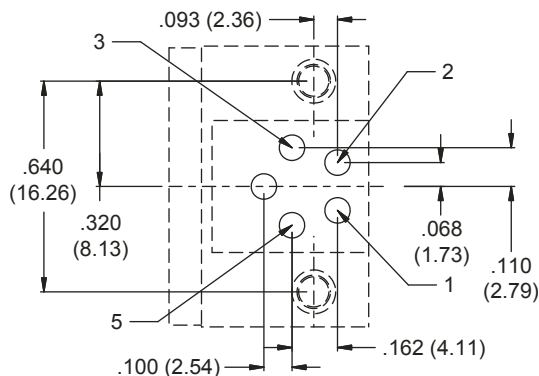
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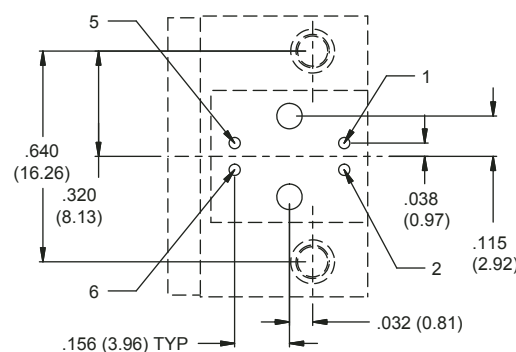
9-200



10-2



10-5



10-201

C