Series 805 Mighty Mouse
Triple-Start ACME Thread Receptacle
805-003 and 805-004 Ordering Information

Three Shell Mounting Options: Jam nut with O-ring for rear panel mounting, square flange for front or rear panel mounting, or in-line receptacles for free-hanging cables.

Gold-Plated Crimp Contacts are held in place with beryllium copper retention clips. Contacts are removable.

Two Shell Styles: Choose integral band platform for direct attachment of a cable shield. Install a boot, or overmold a boot over the band platform. An accessory thread is available for attaching strain reliefs and backshells.

How To Order

Sample Part Number	805-004	-02	NF	9-10	P	A

Series (See Table I)	**805-003** = Receptacle with Banding Platform **805-004** = Receptacle with Accessory Thread
Shell Style (See Table II)	**-01** = In-line **-02** = Square Flange Front or Rear Mount **-12** = Square Flange Rear Mount Non-Locking Clinch Nuts **-22** = Square Flange Rear Mount Locking Clinch Nuts **-07** = Jam Nut for Rear Panel Mounting
Shell Material and Finish	**C** = Aluminum / Black Anodize (Non-Conductive); RoHS Compliant **M** = Aluminum / Electroless Nickel; RoHS Compliant **MT** = Aluminum / Nickel-PTFE RoHS Compliant **NF** = Aluminum / Cadmium with Olive Drab Chromate **ZNU** = Aluminum / Zinc-Nickel with Black Chromate **Z1** = Stainless Steel / Passivated; RoHS Compliant **ZB** = Stainless Steel / Olive Drab Chromate over Cadmium **ZC** = Stainless Steel / Zinc Cobalt Alloy/Black Chromate
Shell Size - Insert Arrangement	See Contact Arrangements Page H-2
Contact Type	**With contacts**: **P** = Pin, **S** = Socket **Without contacts**: **A** = Pin Connector, less contacts, **B** = Socket Connector, less contacts **With 30 AWG Crimp Barrel**: **G** = #23 Pin, **H** = #23 Socket
Shell Key Positions (See Table III)	**A** = Normal **B** = Pos. B **C** = Pos. C **D** = Pos. D **E** = Pos. E **F** = Pos. F

Table I: Series

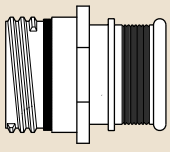
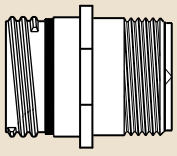
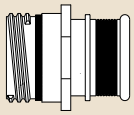
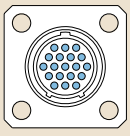
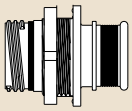
	
805-003 Receptacle with Banding Platform	**805-004** Receptacle with Accessory Thread

Table II: Shell Style

		
-01 In-line Receptacle	**-02, -12, -22** Square Flange	**-07** Jam Nut

H

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

GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912
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Series 805 Mighty Mouse
Triple-Start Threaded Coupling
Contact Arrangements

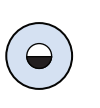
Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
8-1				1		
8-23			3			
8-4	4					
8-6	6					
8-7	7					
9-1					1	
9-25			5			
9-10	10					
10-2				2		
10-28			8			
10-13	13					
10-200	4	2				
11-4				4		
11-210			10			
11-19	19					
11-200	4			2		
11-201	8	2				
12-2					2	
12-5				5		
12-26	26					
12-200	12				1	
12-201	4				2	
12-202	8			2		
13-31	31					
15-2					2	
15-3					3	
15-7				7		
15-220			20			

*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

Contact Legend

#23 ○ #20HD ◓ #20 ● #16 ◒ #12 ⊕

Mating Face View of Pin Connector
(socket connector numbers are reversed)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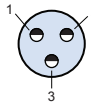
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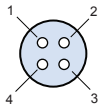
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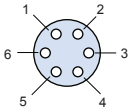
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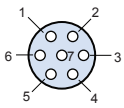
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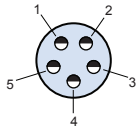
9-1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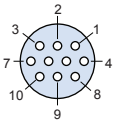
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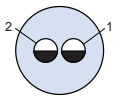
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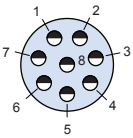
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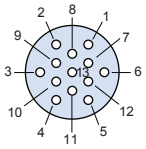
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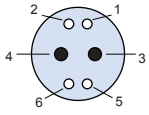
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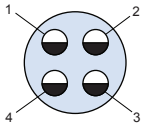
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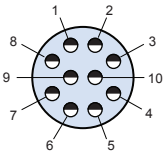
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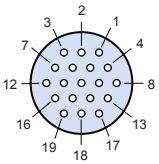
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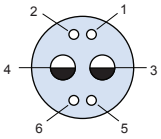
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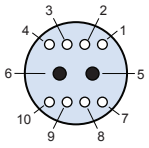
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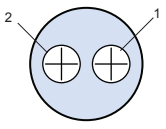
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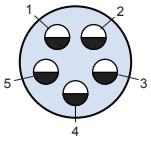
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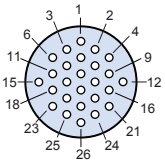
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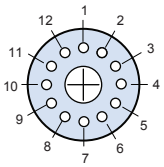
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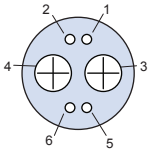
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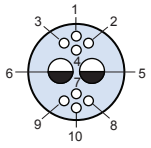
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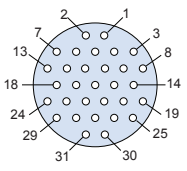
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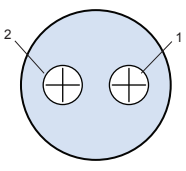
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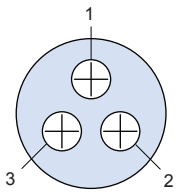
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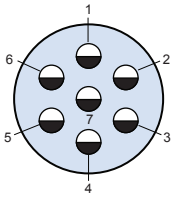
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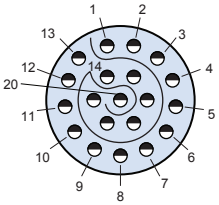
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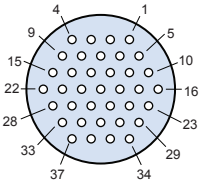

15-37

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

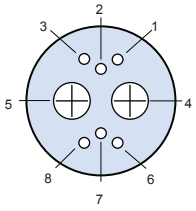
Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
15-37	37					
15-200	6				2	
15-201	10				2	
15-202	20			2		
15-203	12			4		
15-204	12				2	
15-205	4				4	
18-5					5	
18-12				12		
18-235			35			
18-55	55					
18-204	40			2		
18-205	32			4		
18-206	34			2		
18-207	20			4		
18-208	32					1
19-7					7	
19-14				14		
19-241			41			

*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

Contact Legend

#23 ○ #20HD ◓ #20 ● #16 ◒ #12 ⊕

Mating Face View of Pin Connector
(socket connector numbers are reversed)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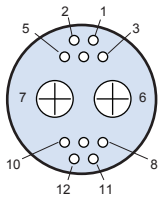
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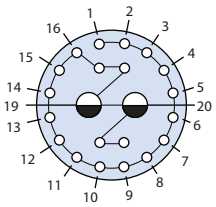
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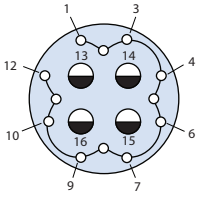
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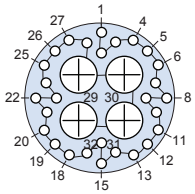
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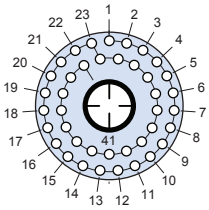
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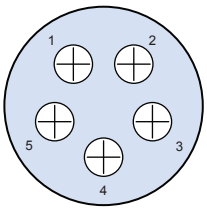
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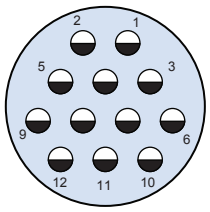
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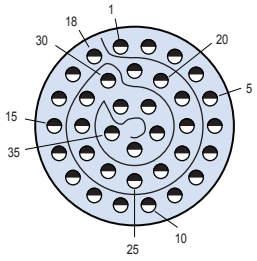
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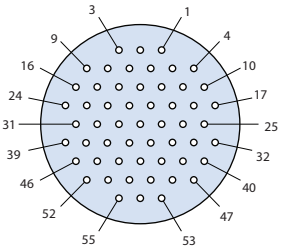
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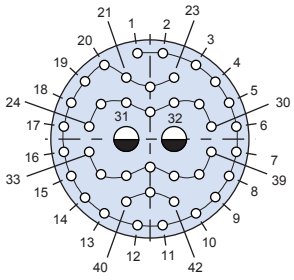
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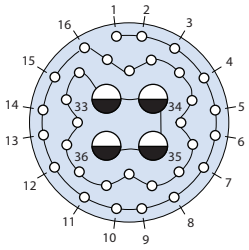
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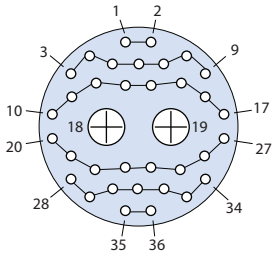
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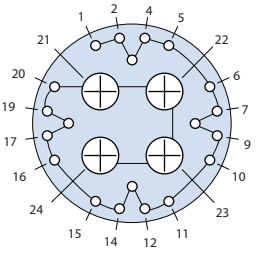
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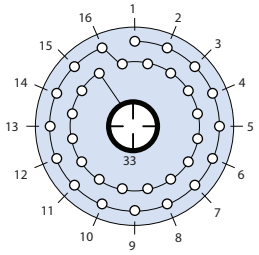
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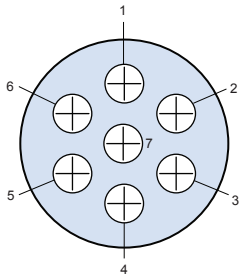
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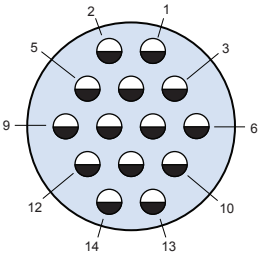
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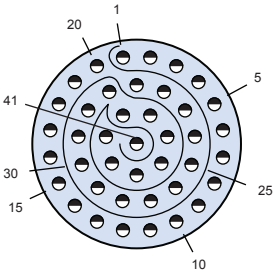

19-241

H

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

Series 805 Mighty Mouse
Triple-Start Threaded Coupling
Contact Arrangements

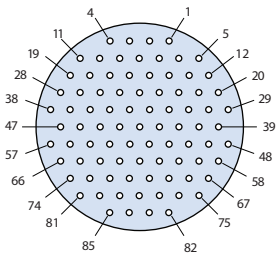
Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
19-85	85					
19-203	40			4		
19-204	28				4	
19-205						
21-19				19		
21-255			55			
21-100	100					
21-201	44					2
21-202	12					4
23-12					12	
23-22				22		
23-269			69			
23-130	130					
23-200	28					4

*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

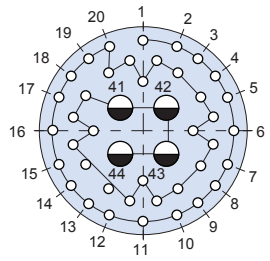
Contact Legend

#23 ○ #20HD ◒ #20 ● #16 ◒ #12 ⊕

Mating Face View of Pin Connector
(socket connector numbers are reversed)



19-85



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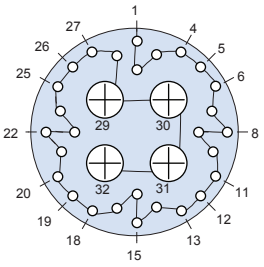

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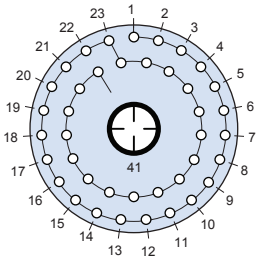

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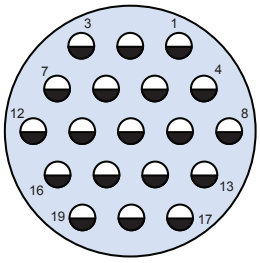

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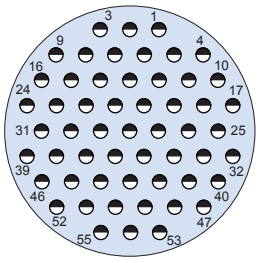

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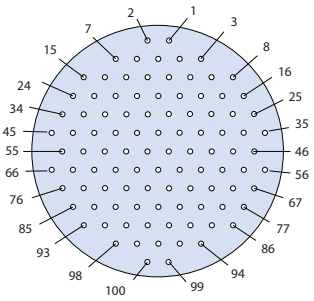

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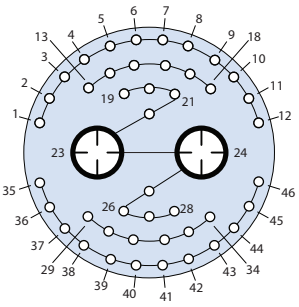

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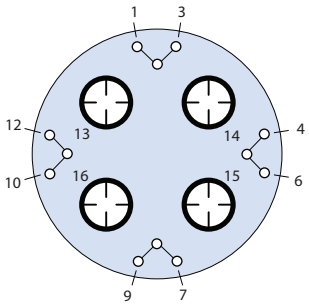

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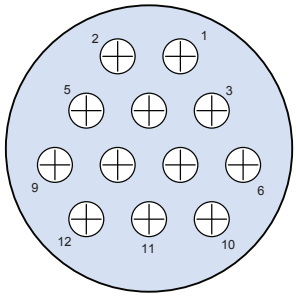

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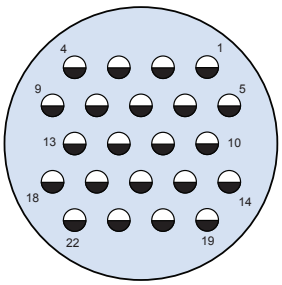

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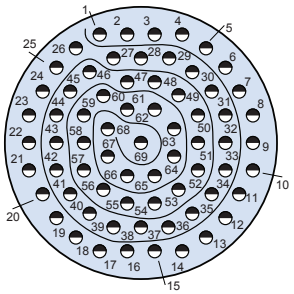

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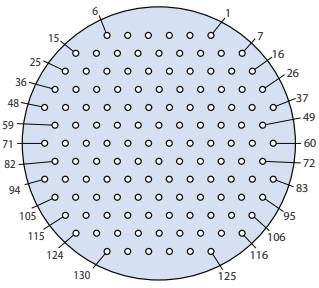
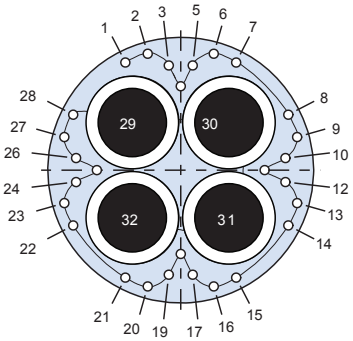
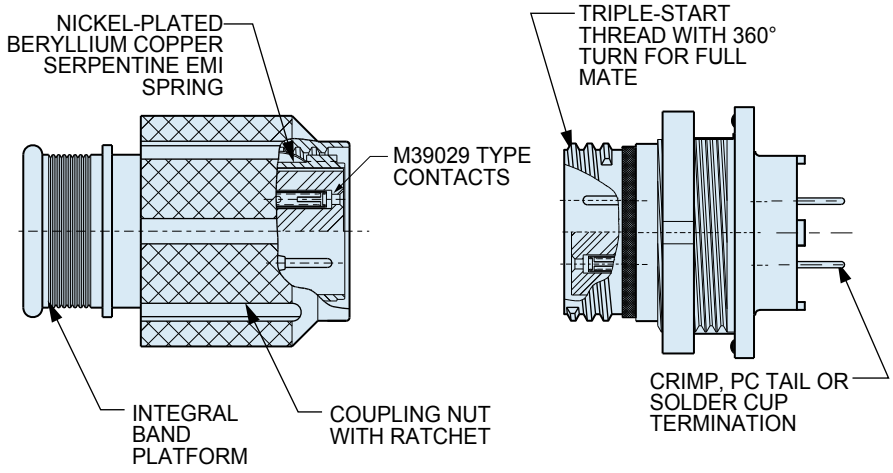


23-130



21-200

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



Outstanding EMI Shielding
Nickel-plated beryllium copper ground spring and metal-to-metal bottoming for excellent EMI performance.

Triple-Start Coupling
Rugged ACME threads resist cross-threading and allow fast mating.

Environmentally Sealed
Meets MIL-STD-810 Method 512 immersion.

Ratchet Mechanism
Ratcheting anti-decoupling mechanism prevents coupling nut backoff when subjected to vibration.

Glenair's Series 805 Connector Offers Outstanding EMI Protection and Vibration Resistance in a Miniaturized Package

The Series 805 connector was developed to provide several performance enhancements compared to other "Mighty Mouse" versions. A ratchet mechanism in the coupling nut prevents de-mating under severe vibration. EMI performance is improved with a serpentine ground spring on the plug barrel. This nickel plated beryllium copper spring assures low shell-to-shell resistance. The Series 805, although larger than other Series 80 versions, saves size and weight compared to MIL-DTL-38999 connectors with no compromise in performance.

Specifications	
Current Rating	#23–5 A, #20HD–7.5 A, #16–13 A, #12–23 A
Dielectric Withstanding Voltage	#23–750 VAC, #20HD–1000 VAC #12 and #16–1800 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +175° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness	55 dB minimum low frequency from 100MHz to 1000MHz. and 65 dB minimum high frequency from 1 GHz to 10GHz.
Magnetic Permeability	2.0 µ maximum
Durability	2000 mating cycles

Materials and Finishes	
Shells, Jam Nuts	Aluminum alloy or stainless steel
Contacts	Copper alloy, 50 µInch gold plated
Insulators	Liquid crystal polymer (LCP)
Contact Retention Clip	Beryllium copper alloy
Seal, O-rings, Grommet	Fluorosilicone rubber
Spring	Nickel-plated beryllium copper
See Series 80 General Information for complete material and finish specs.	

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

GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912
www.glenair.com E-Mail: sales@glenair.com

Mouser Electronics

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Glenair:

805-003-01NF11-19PA 805-003-02M10-13PA 805-003-02NF11-19PA 805-003-07NF9-10PA 805-003-07NF8-4PA 805-003-01C11-19SA 805-004-02NF10-13PA 805-004-07NF11-19PA 805-004-02M10-13SA 805-004-02M9-10SC 805-004-02M9-10SA 805-004-02M8-7SA 805-004-02M8-4SB 805-004-02M8-4SA 805-004-02M15-7SA 805-004-02M11-4SA 805-004-02M11-4PA 805-004-02M10-2SC 805-004-02M9-10SB 805-004-02M10-2SA 805-004-02M10-2SB 805-004-07M10-2PA 805-003-02M18-55SB 805-003-02MT8-7SA 805-003-07M12-200SA 805-003-07MT9-10SA 805-003-07NF11-19SA 805-003-07NF15-201SA 805-003-07NF9-10PB 805-003-07Z118-55SD 805-003-07ZNU8-4SA 805-004-07NF18-55PA 805-004-07Z118-12PA 805-004-07M15-37PA 805-003-07NF8-7PA 805-003-07NF15-37PA 805-003-07NF11-19PA 805-003-07NF10-13PA 805-003-07NF8-7SA 805-003-07Z110-13PA 805-003-01M9-10PA 805-003-02Z111-19PA 805-003-02Z18-7SA 805-003-02Z18-7PA 805-003-07M8-7PA 805-003-07MT8-4SA 805-003-01M10-13PA 805-003-01M10-13SA 805-003-01M11-19PA 805-003-01M11-19SA 805-003-01M12-26PA 805-003-01M12-26SA 805-003-01M15-37PA 805-003-01M15-37SA 805-003-01M18-55PA 805-003-01M18-55SA 805-003-01M19-85PA 805-003-01M19-85SA 805-003-01M8-4PA 805-003-01M8-4SA 805-003-01M8-7PA 805-003-01M8-7SA 805-003-01M9-10SA 805-003-01NF8-7PA 805-003-02M10-13SA 805-003-02M11-19PA 805-003-02M11-19SA 805-003-02M12-26PA 805-003-02M12-26SA 805-003-02M15-37PA 805-003-02M15-37SA 805-003-02M18-55PA 805-003-02M18-55SA 805-003-02M19-85PA 805-003-02M19-85SA 805-003-02M8-4PA 805-003-02M8-4SA 805-003-02M8-7PA 805-003-02M8-7SA 805-003-02M9-10PA 805-003-02M9-10SA 805-003-02MT9-10PA 805-003-02NF8-4PA 805-003-02ZN9-10PA 805-003-07M10-13PA 805-003-07M10-13SA 805-003-07M11-19PA 805-003-07M11-19SA 805-003-07M11-4PA 805-003-07M11-4PB 805-003-07M12-26PA 805-003-07M12-26SA 805-003-07M15-37PA 805-003-07M15-37SA 805-003-07M18-55PA 805-003-07M18-55SA 805-003-07M19-85PA 805-003-07M19-85SA 805-003-07M8-4PA 805-003-07M8-4SA