

**D-subminiature Metal Shell  
MIL-C-24308  
M24308 Series**



**FEATURES**

- *Meets all MIL-C-24308 Class G specifications.*
- *Offered in Crimp and Poke and Solder Cup and PCB vertical and right-angle.*
- *Offered in 9, 15, 25, 37, and 50 position plugs and sockets except right-angle (9 to 37 positions).*
- *Monoblock green diallyl phthalate insulator for improved electrical performance.*
- *See pages 4-5 thru 4-10 for standard dimensions, contact arrangements, and panel mounting specifications.*

**MATERIALS**

**Insulator Material:** Glass-filled diallyl phthalate (green) per MIL-M-14, Type SDG-F  
**Connector Shell:** Steel with cadmium plating and yellow chromate finish  
**Contact Material:** Plug - Brass (machined), Socket - Phosphor bronze (machined)  
**Contact Plating:** 50µin. gold over copper or nickel  
**Dual Float Bushing:** Stainless steel, passivated or non-magnetic brass

**ENVIRONMENTAL**

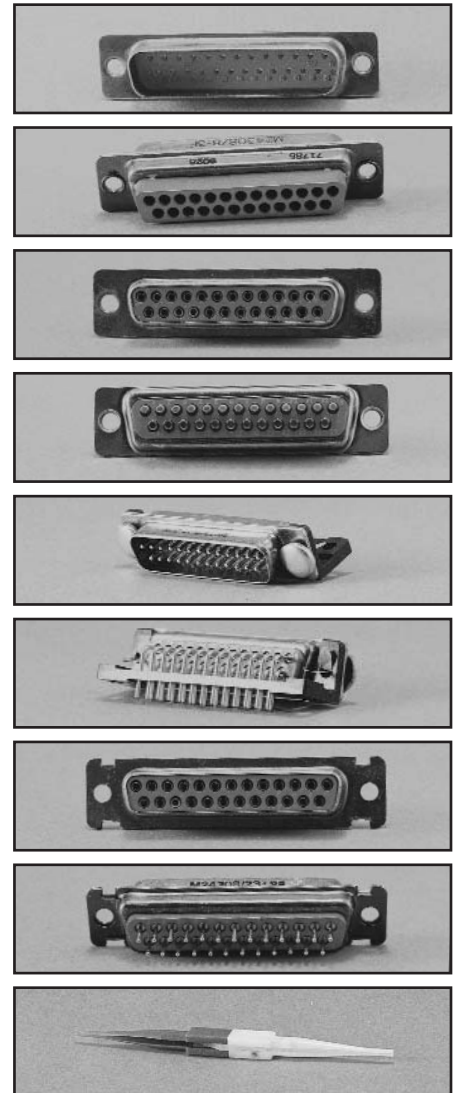
**Operating Temperature:** -65°C to + 125°C  
**Shock:** 50G peak per MIL-STD-202, Method 213, Condition G  
**Vibration:** 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202 Method 204, Condition D  
**Moisture Resistance:** 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103

**ELECTRICAL**

**Withstanding Voltage:** Minimum 1250V RMS @ sea level  
**Current Rating:** 5 Amps  
**Contact Resistance:** 2.7 milliohms maximum  
**Insulation Resistance:** 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing

**MECHANICAL**

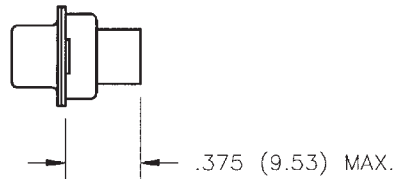
**Individual Contact Insertion and Separation Force (minimum/maximum):** 0.7 oz./12 oz.  
**Durability:** 500 mating cycles



# D-subminiature Metal Shell MIL-C-24308 Crimp and Poke M24308 Series



- Available with .120 mounting holes, float bushings, or dual float bushings.
- Order with contacts included or separately.
- Order with contact Insertion/Extraction Tool included or order tool #CIET-20-HD separately. See page 4-103.



## Ordering Information

### Crimp and Poke Plugs

#### Steel Shell

#### Contacts Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/4-1F	M24308/4-302F	M24308/4-435F
15	M24308/4-2F	M24308/4-303F	M24308/4-436F
25	M24308/4-3F	M24308/4-304F	M24308/4-437F
37	M24308/4-4F	M24308/4-305F	M24308/4-438F
50	M24308/4-5F	M24308/4-306F	M24308/4-439F

#### Contacts Included. Insertion/Extraction Tool Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/4-6F	M24308/4-313F	M24308/4-446F
15	M24308/4-7F	M24308/4-314F	M24308/4-447F
25	M24308/4-8F	M24308/4-315F	M24308/4-448F
37	M24308/4-9F	M24308/4-316F	M24308/4-449F
50	M24308/4-10F	M24308/4-317F	M24308/4-450F

#### Contacts Not Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/4-259F	M24308/4-324F	M24308/4-457F
15	M24308/4-260F	M24308/4-325F	M24308/4-458F
25	M24308/4-261F	M24308/4-326F	M24308/4-459F
37	M24308/4-262F	M24308/4-327F	M24308/4-460F
50	M24308/4-263F	M24308/4-328F	M24308/4-461F

# D-subminiature Metal Shell MIL-C-24308 Crimp and Poke M24308 Series



## Ordering Information

### Crimp and Poke Sockets

#### Steel Shell

##### Contacts Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-1F	M24308/2-23F	M24308/2-342F
15	M24308/2-2F	M24308/2-24F	M24308/2-343F
25	M24308/2-3F	M24308/2-25F	M24308/2-344F
37	M24308/2-4F	M24308/2-26F	M24308/2-345F
50	M24308/2-5F	M24308/2-27F	M24308/2-346F

##### Contacts Included. Insertion/Extraction Tool Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-6F	M24308/2-34F	M24308/2-353F
15	M24308/2-7F	M24308/2-35F	M24308/2-354F
25	M24308/2-8F	M24308/2-36F	M24308/2-355F
37	M24308/2-9F	M24308/2-37F	M24308/2-356F
50	M24308/2-10F	M24308/2-38F	M24308/2-357F

##### Contacts Not Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-281F	M24308/2-292F	M24308/2-482F
15	M24308/2-282F	M24308/2-293F	M24308/2-483F
25	M24308/2-283F	M24308/2-294F	M24308/2-484F
37	M24308/2-284F	M24308/2-295F	M24308/2-485F
50	M24308/2-285F	M24308/2-296F	M24308/2-486F

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# D-subminiature Metal Shell MIL-C-24308 Crimp and Poke M24308 Series

## Ordering Information

### Tooling

- Contact Insertion/Extraction Tool: #CIET-20-HD (Military #M81969/39-01). See page 4-103.
- Wire termination hand tool: #M22520/2-01. See page 4-103.
- Positioner for machine contacts for hand tool #M22520/2-08 (locates contact in the correct position). See page 4-103.

### Crimp and Poke Contacts



## Ordering Information

- Will accommodate 20, 22, and 24 AWG wire.

Description	
Pin	M39029/64-369
Socket	M39029/63-368

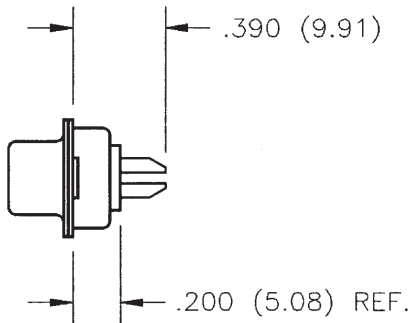
# D-subminiature Metal Shell

## MIL-C-24308 Solder Cup

### M24308 Series



- Available with .120" mounting holes, float bushings, or dual float bushings.
- Will accommodate up to 20 AWG wire.



#### Ordering Information

##### Solder Cup Plugs

###### Steel Shell

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/3-1F	M24308/3-12F	M24308/3-17F
15	M24308/3-2F	M24308/3-13F	M24308/3-18F
25	M24308/3-3F	M24308/3-14F	M24308/3-19F
37	M24308/3-4F	M24308/3-15F	M24308/3-20F
50	M24308/3-5F	M24308/3-16F	M24308/3-21F

###### Brass Non-Magnetic Shell

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/7-1F	M24308/7-12F	M24308/7-17F
15	M24308/7-2F	M24308/7-13F	M24308/7-18F
25	M24308/7-3F	M24308/7-14F	M24308/7-19F
37	M24308/7-4F	M24308/7-15F	M24308/7-20F
50	M24308/7-5F	M24308/7-16F	M24308/7-21F

##### Solder Cup Sockets

###### Steel Shell

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/1-1F	M24308/1-12F	M24308/1-23F
15	M24308/1-2F	M24308/1-13F	M24308/1-24F
25	M24308/1-3F	M24308/1-14F	M24308/1-25F
37	M24308/1-4F	M24308/1-15F	M24308/1-26F
50	M24308/1-5F	M24308/1-16F	M24308/1-27F

###### Brass Non-Magnetic Shell

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/5-1F	M24308/5-12F	M24308/5-23F
15	M24308/5-2F	M24308/5-13F	M24308/5-24F
25	M24308/5-3F	M24308/5-14F	M24308/5-25F
37	M24308/5-4F	M24308/5-15F	M24308/5-26F
50	M24308/5-5F	M24308/5-16F	M24308/5-27F

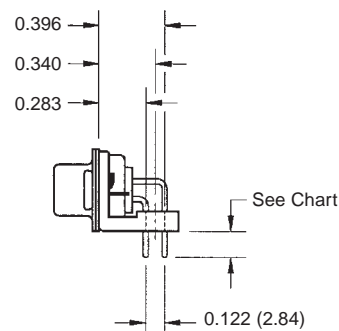
# D-subminiature Metal Shell MIL-C-24308 PCB M24308 Series



## Right-Angle Connector

- .283" footprint requires minimal PCB space.
- Available with three contact tail lengths (.127", .158", and .183") with .030" contact diameter.
- Available with two contact tail lengths (.127" and .183") with .040" contact diameter.
- Offered with .120" mounting holes.
- Mounting bracket: Black nylon. Can be removed if necessary.

Right-Angle



## Ordering Information

### Right-Angle PCB Plugs (Sockets not available)

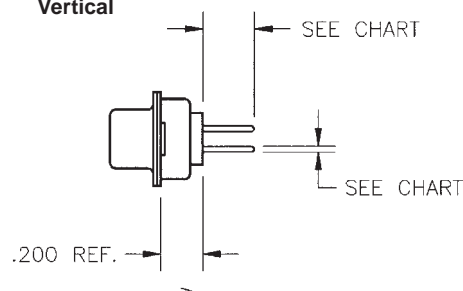
#### Steel Shell

Positions	.127 Tail Length			.183 Tail Length	
	.030 Contact Diameter	.030 Contact Diameter	.030 Contact Diameter	.040 Contact Diameter	.040 Contact Diameter
9	M24308/24-25F	M24308/24-31F	M24308/24-49F	M24308/24-37F	M24308/24-55F
15	M24308/24-26F	M24308/24-32F	M24308/24-50F	M24308/24-38F	M24308/24-56F
25	M24308/24-27F	M24308/24-33F	M24308/24-51F	M24308/24-39F	M24308/24-57F
37	M24308/24-28F	M24308/24-34F	M24308/24-52F	M24308/24-40F	M24308/24-58F

## Vertical Connector

- Available with two contact tail lengths (.158" and .183") and two contact diameters (.030" and .040").
- Offered with .120" mounting holes.

Vertical



## Ordering Information

### Vertical PCB Plugs

#### Steel Shell

Positions	.158 Tail Length		.183 Tail Length	
	.030 Contact Diameter	.030 Contact Diameter	.040 Contact Diameter	.040 Contact Diameter
9	M24308/24-1F	M24308/24-7F	M24308/24-13F	M24308/24-19F
15	M24308/24-2F	M24308/24-8F	M24308/24-14F	M24308/24-20F
25	M24308/24-3F	M24308/24-9F	M24308/24-15F	M24308/24-21F
37	M24308/24-4F	M24308/24-10F	M24308/24-16F	M24308/24-22F
50	M24308/24-5F	M24308/24-11F	M24308/24-17F	M24308/24-23F

## Vertical PCB Sockets

#### Steel Shell

Positions	.158 Tail Length		.183 Tail Length	
	.030 Contact Diameter	.030 Contact Diameter	.040 Contact Diameter	.040 Contact Diameter
9	M24308/23-1F	M24308/23-7F	M24308/23-13F	M24308/23-19F
15	M24308/23-2F	M24308/23-8F	M24308/23-14F	M24308/23-20F
25	M24308/23-3F	M24308/23-9F	M24308/23-15F	M24308/23-21F
37	M24308/23-4F	M24308/23-10F	M24308/23-16F	M24308/23-22F
50	M24308/23-5F	M24308/23-11F	M24308/23-17F	M24308/23-23F