Solder Cup – Series 1 – High Reliability – Metal Shell



Features

Solder cup version for wire.

- Commercial version of M24308 military connectors with tin-plated or zinc-plated shell and 30µin. gold plating.
- Monoblock green diallyl phthalate insulator for improved electrical performance.
- Machined contacts for precision performance.
- Offered in 9, 15, 25, 37, and 50 position plugs and sockets.
- Offered with .120 mounting holes & 4-40 clinch nuts.
- RoHS version is available
- Approvals:
  - UL Recognized – Files E170218 (UL1977)and E130965 (UL1863).
  - CSA Approved – File LR31996.

Materials

- Insulator Material: Glass-filled diallyl phthalate (green) UL 94V-0 rated
- Connector Shell: Steel with zinc plating and yellow chromate finish, tin plating (grounding indents on plug, RoHS is zinc plating with clear chromate
- Contact Material: Plug – Brass (machined), Socket – Phosphor bronze (machined)
- Contact Plating: 30µin. gold over nickel
- 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish.

Mechanical

- Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz.

Durability

- 500 mating cycles

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

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

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Parts

Solder Cup Plugs

	Zinc-Plated Shell with Yellow Chromate Finish		Tin-Plated Shell with Grounding Indents	
Positions	Mounting Hole	4-40 Clinch Nut	Mounting Hole	4-40 Clinch Nut
9	DEM-9P	DEME-9P	DEM-9PTI	DEME-9PTI
15	DAM-15P	DAME-15P	DAM-15PTI	DAME-15PTI
25	DBM-25P	DBME-25P	DBM-25PTI	DBME-25PTI
37	DCM-37P	DCME-37P	DCM-37PTI	DCME-37PTI
50	DDM-50P	DDME-50P	DDM-50PTI	DDME-50PTI

Solder Cup Sockets

	Zinc-Plated Shell with Yellow Chromate Finish		Tin-Plated Shell	
Positions	Mounting Hole	4-40 Clinch Nut	Mounting Hole	4-40 Clinch Nut
9	DEM-9S	DEME-9S	DEM-9ST	DEME-9ST
15	DAM-15S	DAME-15S	DAM-15ST	DAME-15ST
25	DBM-25S	DBME-25S	DBM-25ST	DBME-25ST
37	DCM-37S	DCME-37S	DCM-37ST	DCME-37ST
50	DDM-50S	DDME-50S	DDM-50ST	DDME-50ST

RoHS Solder Cup Plugs

	Zinc-Plated Shell / Clear Chromate Finish	
Positions	Mounting Hole	4-40 Clinch Nut
9	DEMH-9P	DEMEH-9P
15	DAMH-15P	DAMEH-15P
25	DBMH-25P	DBMEH-25P
37	DCMH-37P	DCMEH-37P
50	DDMH-50P	DDMEH-50P

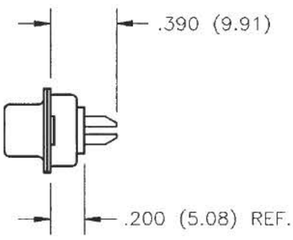
RoHS Solder Cup Sockets

	Zinc-Plated Shell/Clear Chromate Finish	
Positions	Mounting	4-40 Clinch Nut
9	DEMH-9S	DEMEH-9S
15	DAMH-15S	DAMEH-15S
25	DBMH-25S	DBMEH-25S
37	DCMH-37S	DCMEH-37S
50	DDMH-50S	DDMEH-50S

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Dimensions

Click here for D-Sub Shell Dimensions and Contact Arrangements



Will accommodate up to 20 AWG wire.

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