

# Combo Solder Cup Micro-D for High Power Applications



Micro-D  
Combo



**13 Amp Current Rating** – Combo Micro-D's combine the size and weight advantages of a Micro -D connector with the added ability to handle higher power needs.

**Solder Cup Contacts** – Gold plated beryllium copper power contacts accommodate up to #16 AWG stranded wire. Signal contacts accept up to #26 AWG wire.

**Mil Spec Performance** – Glenair combo Micro-D connectors comply with the requirements of MIL-DTL-83513 and feature excellent resistance to high temperatures, shock and vibration.

## HOW TO ORDER COMBO SOLDER CUP MICRO-D

Series	Shell Finish	Shell Size and Insert Arrangement	Termination Type	Hardware
GMPM	1 – Cadmium	B112P	S – Solder Cup	B
	2 – Nickel	B112R		P
	4 – Black Anodize	D112P		M
	5 – Gold	D112R		M1
	6 – Chem Film	D113P		S
		D113R		S1
	Stainless Steel Shell	E113P		L
		E113R		K
	3 – Passivated	G101P		F
		G101R		R
		G103P		H
		G103R		
		G111P		
	G111R			
<b>Sample Part Number</b>				
GMPM	2	– G111P	S	B



G103P

### Plug Connector

with TwistPin signal contacts and socket 2mm power contacts



G103S

### Receptacle Connector

with socket TwistPin signal contacts and male 2mm power contacts

## MOUNTING HARDWARE

B	P	M	M1	S	S1	L	K	F	R	H
Thru-Hole	Jackpost #2-56	Hex Head Jackscrew #2-56	Hex Head Jackscrew, Extended #2-56	Slot Head Jackscrew #2-56	Slot Head Jackscrew, Extended #2-56	Hex Head Jackscrew Non-Removable #2-56	Slot Head Jackscrew Non-Removable Extended	Float Mount For Front Panel Mounting	Float Mount For Rear Panel Mounting	#2-56 Threaded Insert

### PERFORMANCE SPECIFICATIONS

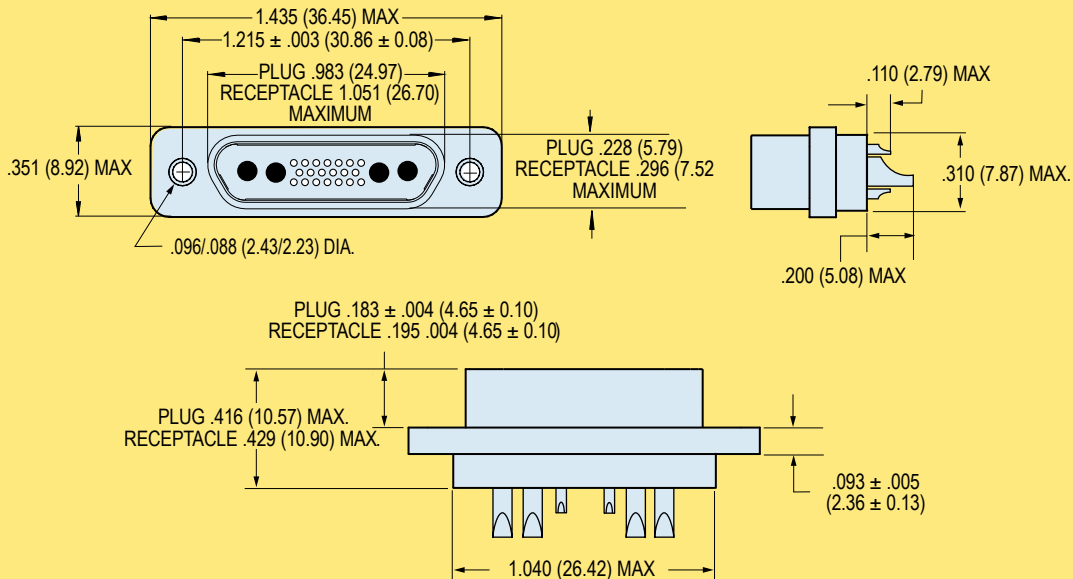
Current Rating	3 AMP Signal Contacts 13 AMP .079" (2mm) Power Contacts
Dielectric Withstanding Voltage	600 VAC Sea Level 150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Max. Signal Contacts
Magnetic Permeability	2 $\mu$ Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20 g.
Outgassing	Meets NASA Outgassing Requirements
Mating Force	(10 Ounces) X (# of Contacts)

### MATERIALS AND FINISHES

Connector Shell	Aluminum Alloy 6061. See Ordering Info for Plating Options.
Insulator	Liquid Crystal Polymer (LCP)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact, TwistPin	Copper Alloy with 50 Microinches Gold over Nickel Plating
Socket Contact	Copper Alloy with 50 Microinches Gold Over Nickel Plating
Pin Contact, 2mm. Power	Brass With 50 Microinches Gold Over Nickel Plating
Skt. Contact, 2mm. Power	Beryllium Copper With 50 Microinches Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
PCB Terminals	Gold-Plated Copper Alloy, Solder Dipped
Encapsulant	Epoxy Resin Hysol EE4215

F

### DIMENSIONS FOR SHELL SIZE G CONNECTORS

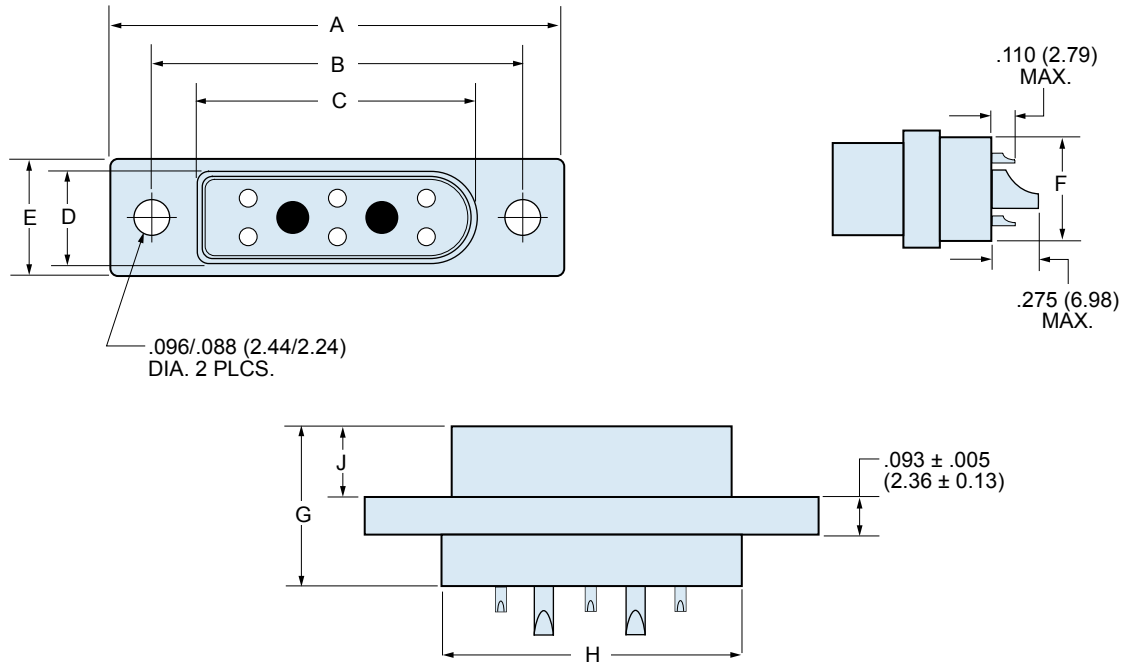


Dimensions for Shell Size G Connectors  
Layouts G101, G103, G111

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Dimensions for Shell Size B, D, AND E Connectors  
Layouts B112, D112, D113, and E113

F

## COMBO SOLDER CUP CONNECTOR DIMENSIONS

Layout	A Max.		B		C Max.		D Max.		E Max.		F Max.		G Max.		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
<b>B112P</b>	.935	23.75	.715	18.16	.481	12.21	.242	6.15	.315	8.00	.270	6.86	.416	10.57	.550	13.97	.184	4.68
<b>B112R</b>	.935	23.75	.715	18.16	.547	13.92	.315	8.00	.315	8.00	.270	6.86	.429	10.90	.550	13.97	.197	5.01
<b>D112P</b>	1.185	30.01	.965	24.51	.731	18.56	.242	6.15	.315	8.00	.270	6.86	.416	10.57	.800	20.32	.184	4.68
<b>D112R</b>	1.185	30.01	.965	24.51	.798	20.27	.315	8.00	.315	8.00	.270	6.86	.429	10.90	.800	20.32	.197	5.01
<b>D113P</b>	1.185	30.01	.965	24.51	.731	18.56	.242	6.15	.315	8.00	.270	6.86	.416	10.57	.800	20.32	.184	4.68
<b>D113R</b>	1.185	30.01	.965	24.51	.798	20.27	.315	8.00	.315	8.00	.270	6.86	.429	10.90	.800	20.32	.197	5.01
<b>E113P</b>	1.335	33.91	1.115	28.32	.881	22.37	.242	6.15	.315	8.00	.270	6.86	.416	10.57	.950	24.13	.184	4.68
<b>E113R</b>	1.335	33.91	1.115	28.32	.948	24.08	.315	8.00	.315	8.00	.270	6.86	.429	10.90	.950	24.13	.197	5.01