chanhvinh.com

GMPM Combo Micro-D for High Power Applications
Solder Cup



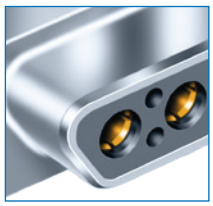
13 Amp Current Rating – Combo Micro-D's combine the size and weight advantages of a Micro -D connector with the added ability to handle higher power needs.

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.

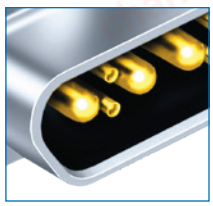
How To Order Combo Solder Cup Micro-D

Sample Part Number	GMPM	2	-G111	P	S	B
Series	GMPM					
Shell Finish	Aluminum Shell **1** - Cadmium **2** - Nickel **4** - Black Anodize **5** - Gold **6** - Chem Film **33** - Nickel-PTFE Stainless Steel Shell **3** - Passivated					
Shell Size and Insert Arrangement	**B112**, **D112**, **D113**, **E112**, **E113**, **G101**, **G103**, **G111**, **J112** See Insert Arrangements on Page F-2					
Shell Style	**P** - Plug **R** - Receptacle					
Termination Type	**S** - Solder Cup					
Hardware	**B**, **P**, **M**, **M1**, **S**, **S1**, **L**, **K**, **F**, **R**, **H**					



G103P

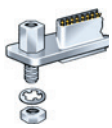
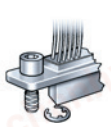
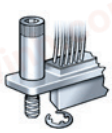
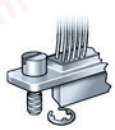
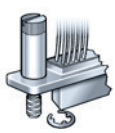
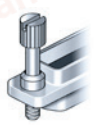
Plug Connector
with TwistPin signal contacts and socket 2mm power contacts



G103R

Receptacle Connector
with socket TwistPin signal contacts and male 2mm power contacts

Table I: Mounting Hardware

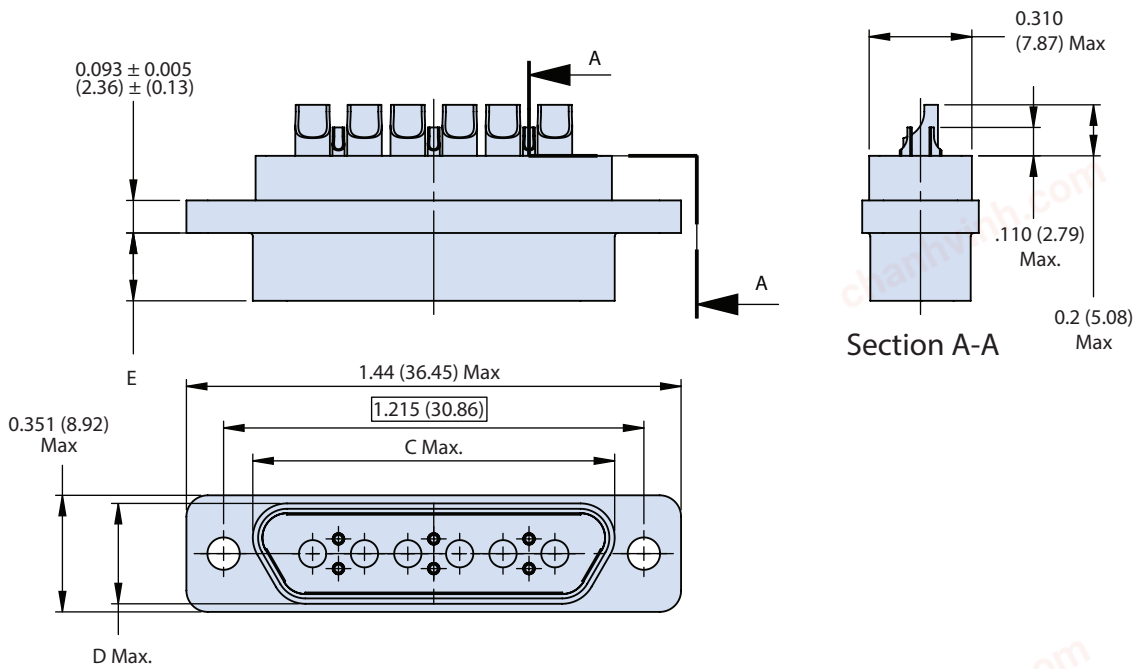
B	P	M	M1	S	S1	L	K	F	R	H
										
Thru-Hole	Jackpost #2-56	Hex Head Jackscrew #2-56	Hex Head Jackscrew, Extended #2-56	Slot Head Jackscrew #2-56	Slot Head Jackscrew, Extended #2-56	Hex Head Jackscrew Non-Removable #2-56	Slot Head Jackscrew Non-Removable Extended	Float Mount For Front Panel Mounting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

© 2013 Glenair, Inc.

chanhvinh.com

GMPM Combo Micro-D for High Power Applications
Solder Cup

Table II: Dimensions for Shell Size G Connectors



Layout	C Max		D Max		E ±0.10	
	In.	mm.	In.	mm.	In.	mm.
G101P	0.983	24.97	0.228	5.79	0.183	4.65
G101R	1.051	26.70	0.296	7.52	0.195	4.95
G103P	0.983	24.97	0.228	5.79	0.183	4.65
G103R	1.051	26.70	0.296	7.52	0.195	4.95
G111P	0.983	24.97	0.228	5.79	0.183	4.65
G111R	1.051	26.70	.296	7.52	0.195	4.95

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 Signal Contacts
Low Level Contact Resistance	32 Milliohms Maximum Signal Contacts
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20 g.
Mating Force	(10 Ounces) X (# of Contacts)
Power Contacts	(28 oz) x (# of contacts)

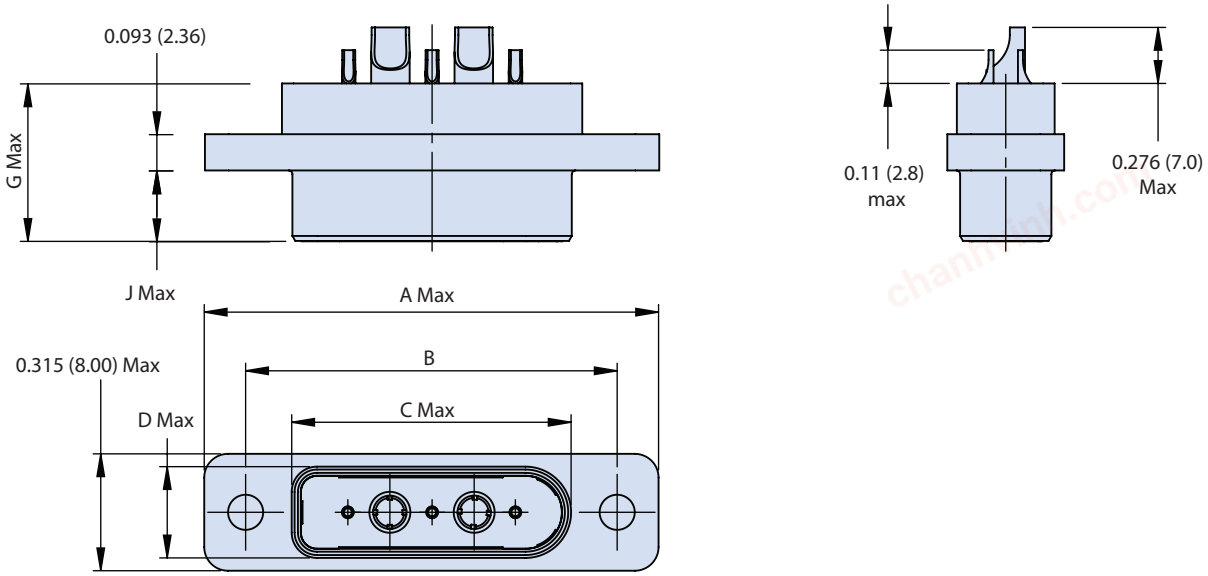
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061. See Ordering Info for Plating Options.
Insulator	Liquid Crystal Polymer (LCP)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact, TwistPin	Copper Alloy with 50 Microinches Gold over Nickel Plating
Socket Contact	Copper Alloy with 50 Microinches 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

© 2013 Glenair, Inc.

chanhvinh.com

GMPM Combo Micro-D for High Power Applications
Solder Cup

Table III: Dimensions for Shell Size B, D, E and J Connectors



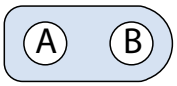
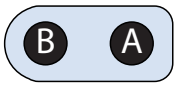
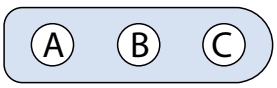
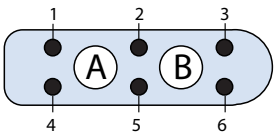
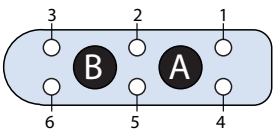
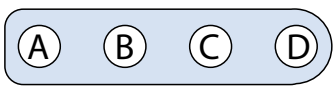
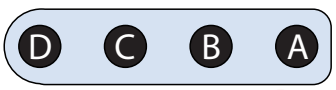
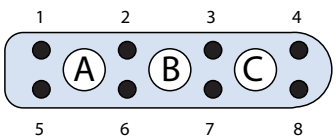
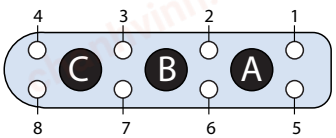
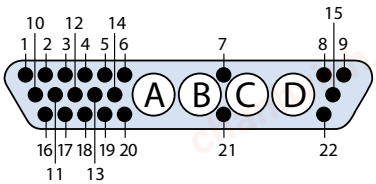
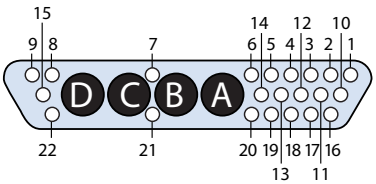
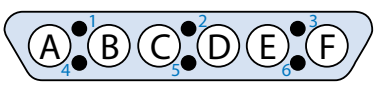
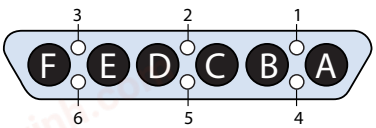
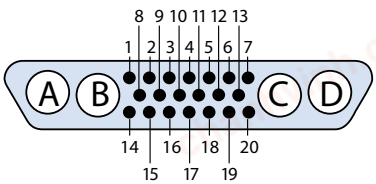
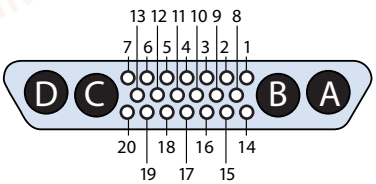
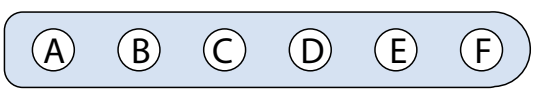
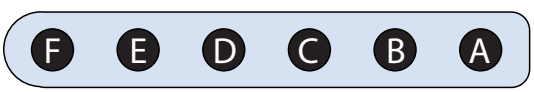
Layout	A Max.		B		C Max.		D Max.		G Max.		J Max.	
	In.	mm.	In . ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In.	mm.
B112P	.935	23.75	.715	18.16	.481	12.21	.242	6.15	.416	10.57	.184	4.68
B112R	.935	23.75	.715	18.16	.547	13.92	.315	8.00	.429	10.90	.197	5.01
D112P	1.185	30.10	.965	24.51	.731	18.56	.242	6.15	.416	10.57	.184	4.68
D112R	1.185	30.10	.965	24.51	.798	20.27	.315	8.00	.429	10.90	.197	5.01
D113P	1.185	30.10	.965	24.51	.731	18.56	.242	6.15	.416	10.57	.184	4.68
D113R	1.185	30.10	.965	24.51	.798	20.27	.315	8.00	.429	10.90	.197	5.01
E112P	1.335	33.91	1.115	28.32	.881	22.37	.242	6.15	.416	10.57	.184	4.68
E112R	1.335	39.91	1.115	28.32	.948	24.08	.315	8.00	.429	10.90	.197	5.01
E113P	1.335	33.91	1.115	28.32	.881	22.37	.242	6.15	.416	10.57	.184	4.68
E113R	1.335	33.91	1.115	28.32	.948	24.08	.315	8.00	.429	10.90	.197	5.01
J112P	1.835	46.61	1.615	41.02	1.381	35.07	.242	6.15	.416	10.57	.184	4.68
J112R	1.835	46.61	1.615	41.02	1.448	36.78	.315	8.00	.429	10.90	.197	5.01

© 2013 Glenair, Inc.

chanhvinh.com

GMPM Combo Micro-D for High Power Applications

Shell Size and Contact Arrangements - Mating Face View

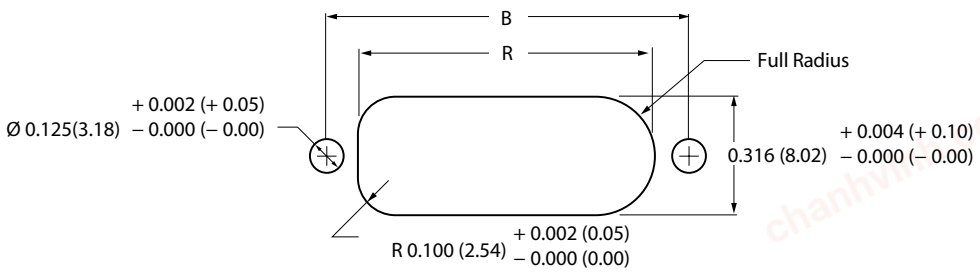
PLUG		RECEPTACLE
	**B112** 2 POWER CONTACTS	
	**D112** 3 POWER CONTACTS	
	**D113** 2 POWER CONTACTS 6 MICRO CONTACTS	
	**E112** 4 POWER CONTACTS	
	**E113** 3 POWER CONTACTS 8 MICRO CONTACTS	
	**G101** 4 POWER CONTACTS 22 MICRO CONTACTS	
	**G103** 6 POWER CONTACTS 6 MICRO CONTACTS	
	**G111** 4 POWER CONTACTS 20 MICRO CONTACTS	
	**J112** 6 POWER CONTACTS	

© 2013 Glenair, Inc.

chanhvinh.com

GMPM Combo Micro-D for High Power Applications
Panel Mount Cutouts

Recommended Panel Cutout for Shell Sizes B, D, E, and J



Dimensions				
Shell Size	B		R	
	In . ± .003	mm. ± 0.08	In. + .004 - .000	mm. +0.06 -0.00
B	.715	18.16	.550	13.95
D	.965	24.51	.800	20.30
E	1.115	28.32	.949	24.11
J	1.615	41.02	1.449	36.81

Recommended Panel Cutout for Shell Size G

