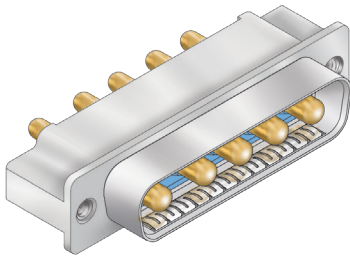


SERIES 28

HiPer-D® Combo Connectors



280-054P straight PC tail pin connectors
with low profile mounting flange



The HiPer-D® is a high performance version of the M24308-type D-Subminiature connector. HiPer-D® connectors feature improved EMI performance and environmental sealing. Factory-installed PC tail contacts, integral board standoffs and threaded holes for attaching to circuit board. Optional ground springs for improved resistance to electromagnetic interference. Gold-plated copper alloy contacts, one-piece machined aluminum shell, glass-reinforced thermoset epoxy insulator, epoxy potting compound, fluorosilicone face seal. 1000 VAC, 7.5 Amps (#20), up to 40 Amps with size #8 power contacts.

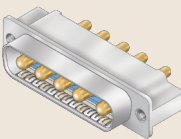
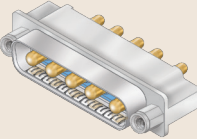
How To Order

How To Order							
Sample Part Number		280-054P	5-43P2	JF	N	N	B
Basic Part Number	280-054P						
Shell Size-Contact Arrangement	See Shell Size - Contact Arrangements Table						
Shell Finish	ME = Electroless Nickel MT = Nickel-PTFE JF = Cadmium with Yellow Chromate Z2 = Gold Z1 = Passivated Stainless Steel						
Ground Spring	G = Supplied with EMI Ground Spring N = No Ground Spring						
Mating Hardware	N = No Hardware P = #4-40 Female Jackposts						
PC Tail Length	A = .125 (3.18) Tail Length B = .250 (6.35) Tail Length						

Contact Arrangements

Shell Size-Contact Arr.	Contact Size and Qty	
	#20	#8
1-2P2		2
1-5P1	4	1
2-3P3		3
2-7P2	5	2
2-11P1	10	1
3-5P5		5
3-9P4	5	4
3-13P3	10	3
3-17P2	15	2
3-21P1	20	1
4-8P8		8
4-13P6	7	6
4-17P5	12	5
4-21PA4	17	4
4-25P3	22	3
4-27P2	25	2
5-24P7	17	7
5-36P4	32	4
5-43P2	41	2
5-47P1	46	1

Mating Hardware

N No Hardware #4-40 Female Threads in Mounting Holes

Choose this option for rear panel mounting and order jackpost kit 289-016 separately.
P #4-40 Female Jackposts


Specifications

Current Rating	#20 7.5 AMPS, #8 40 AMPS
Test Voltage	1000 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +200° C.
Ingress Protection	IP 67
Shock	300 g.
Vibration, Random	43.92 g.

Materials and Finishes

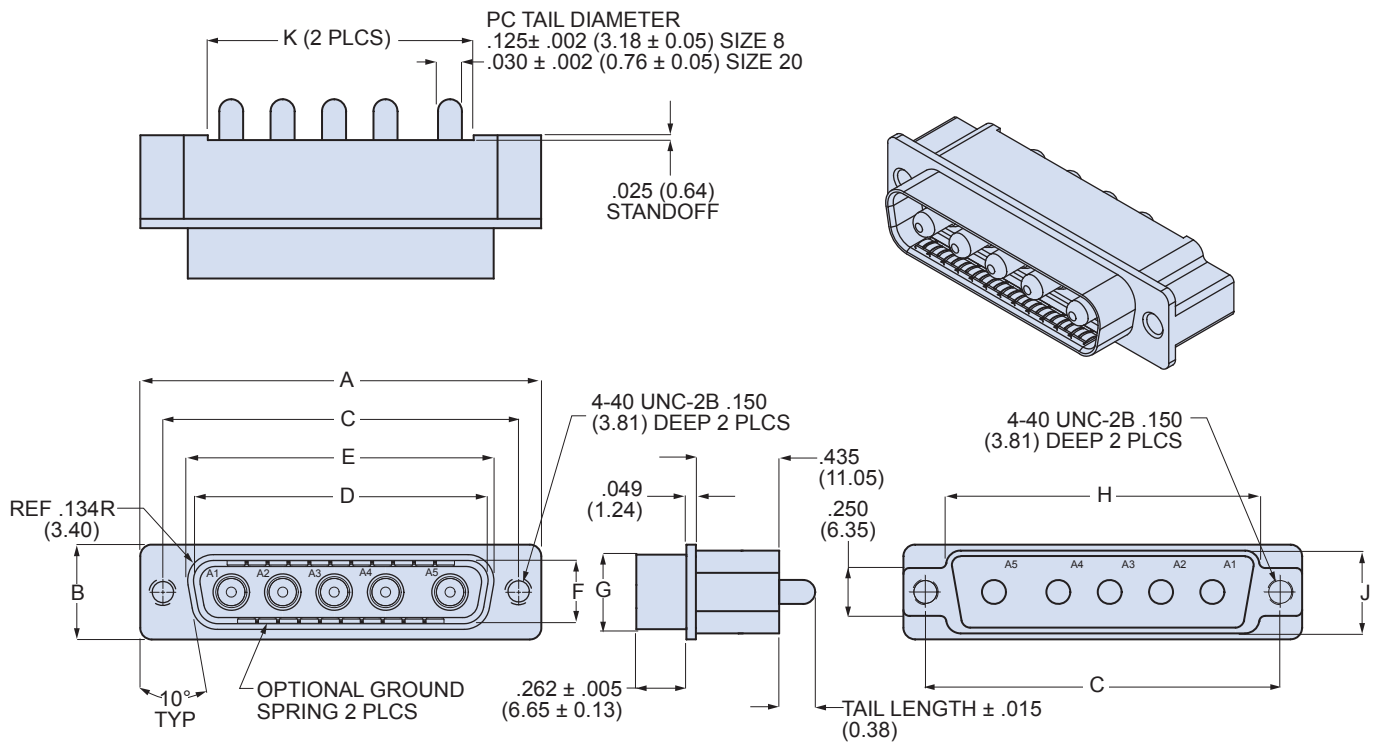
Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold
Insulator	Thermoset epoxy
EMI Spring	Copper alloy, nickel plated
Face Seal	Fluorosilicone rubber
Hardware	300 series stainless steel

HiPer-D® Combo Connectors



280-054P straight PC tail pin connectors with low profile mounting flange

280-054P DIMENSIONS



Dimensions																				
Shell Size	A		B		C Basic		D		E		F		G		H Max		J Max		K Max	
	in ± .015	mm ± 0.38	in ± .015	mm ± 0.38	in. in.	mm mm	in ± .005	mm ± 0.13	in ± .005	mm ± 0.13	in ± .005	mm ± 0.13	in ± .005	mm ± 0.13	in in	mm mm	in in	mm mm	in in	mm mm
1	1.213	30.81	.494	12.55	.984	24.99	.666	16.92	.726	18.44	.329	8.36	.389	9.88	.769	19.53	.432	10.97	.520	13.21
2	1.541	39.14	.494	12.55	1.312	33.32	.994	25.25	1.054	26.77	.329	8.36	.389	9.88	1.093	27.76	.432	10.97	.844	21.44
3	2.088	53.04	.494	12.55	1.852	47.04	1.534	38.96	1.594	40.49	.329	8.36	.389	9.88	1.636	41.55	.432	10.97	1.386	35.20
4	2.729	69.32	.494	12.55	2.500	63.50	2.182	55.42	2.242	56.95	.329	8.36	.389	9.88	2.282	57.96	.432	10.97	2.034	51.66
5	2.635	66.93	.605	15.37	2.406	61.11	2.079	52.81	2.139	54.33	.441	11.20	.501	12.73	2.188	55.58	.544	13.82	1.887	47.93

NOTES

1. Contacts are factory-installed, non-removable and are potted with epoxy.
2. HiPer-D® connectors are available with a wide variety of materials and finishes. See [About Series 28 HiPer-D® Shell Plating Options](#) for additional choices .
3. For panel cutout dimensions, refer to [Panel Cutouts and Printed Circuit Board Footprints](#).
4. For printed circuit board mounting dimensions, refer to [Panel Cutouts and Printed Circuit Board Footprints](#).
5. Combo HiPer-D® connectors meet the applicable requirements of MIL-DTL-24308 and are intermateable with standard M24308-type D-Subminiature combo connectors with corresponding contact arrangements and type.
6. Additional electrical, mechanical and environmental specifications are listed in [HiPer-D® Product Specification](#).