

**Professionally approved products.  
Datasheet**

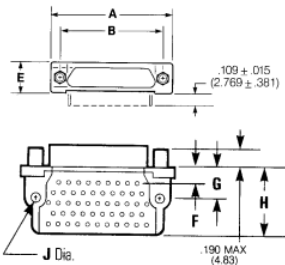
**2.54mm Pitch 37 Way Right Angle Through Hole Mount Micro-D PCB Connector, Socket**

RS Stock 312-2787

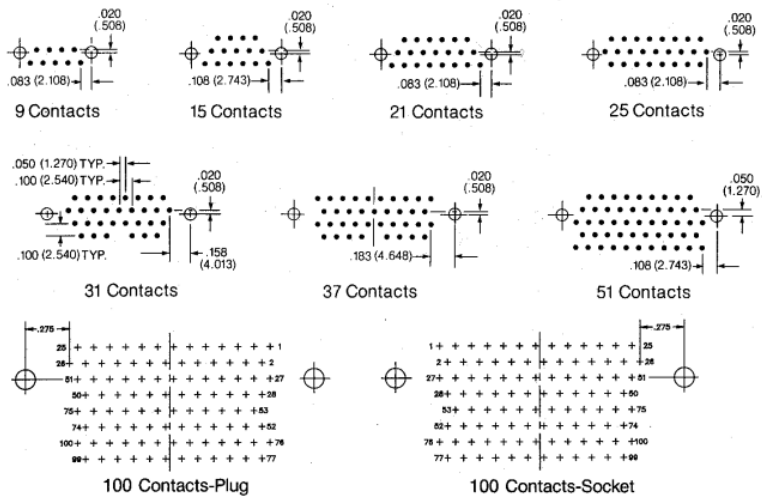


**Dimensions: (mm)**

**90° Narrow Termination**



**Recommended Board Layout**



NOTE: For connector interface dimensions, see page 10.

Typ. Hole Dia. = 1.02 mm

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### Specifications

No. of Contacts	A		B		C	
	Max.		± .005 (0.13)		Max.	
	in	mm	in	mm	in	mm
9 Plug	.785	19.94	.565	14.35	.308	7.82
9 Socket	.785	19.94	.565	14.35	.308	7.82
15 Plug	.935	23.75	.715	18.16	.308	7.82
15 Socket	.935	23.75	.715	18.16	.308	7.82
21 Plug	1.085	27.56	.865	21.97	.308	7.82
21 Socket	1.085	27.56	.865	21.97	.308	7.82
25 Plug	1.085	30.10	.965	24.51	.308	7.82
25 Socket	1.185	30.10	.965	24.51	.308	7.82
31 Plug	1.335	33.91	1.115	28.32	.308	7.82
31 Socket	1.335	33.91	1.115	28.32	.308	7.82
37 Plug	1.485	37.72	1.265	32.13	.308	7.82
37 Socket	1.485	37.72	1.265	32.13	.308	7.82
51 Plug	1.435	36.45	1.215	30.86	.351	8.92
51 Socket	1.435	36.45	1.215	30.86	.351	8.92
100 Plug	2.175	55.25	1.800	45.72	.394	10.00
100 Socket	2.175	55.25	1.800	45.72	.394	10.00

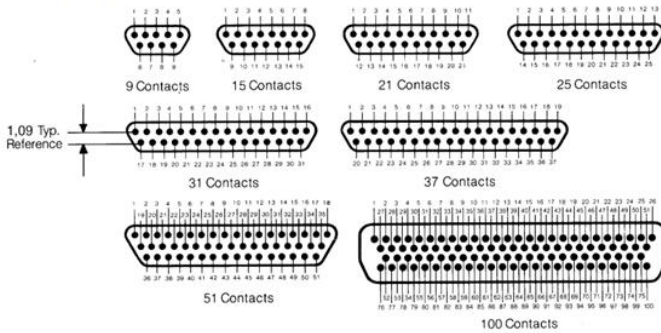
No. of Contacts	F		G		H		J	
	± .010 (0.25)		± .010 (0.25)		Max.		± .005 (0.13)	
	in	mm	in	mm	in	mm	in	mm
9 Plug	.230	5.84	.250	6.35	.420	10.67	.096	2.44
9 Socket	.230	5.84	.250	6.35	.420	10.67	.096	2.44
15 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
15 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
21 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
21 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
25 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
25 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
31 Plug	.130	3.30	.250	6.35	.520	13.21	.996	2.44
31 Socket	.130	3.30	.250	6.35	.520	13.21	.096	2.44
37 Plug	.130	3.30	.250	6.35	.520	13.21	.096	2.44
37 Socket	.130	3.30	.250	6.35	.520	13.21	.096	2.44
51 Plug	.150	3.81	.300	7.62	.650	16.51	.096	2.44
51 Socket	.150	3.81	.300	7.62	.650	16.51	.096	2.44
100 Plug	.200	5.08	.400	10.16	1.000	25.40	.125	3.18
100 Socket	.200	5.08	.400	10.16	1.000	25.40	.125	3.18

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### Contact Arrangements

(Face view of pin insert)  
(Use reverse order for socket side)



No. of Contacts	Maximum Mating Force		Minimum Unmating Force	
	Lb.	Kg	Lb.	Kg
9	5.63	2.56	.28	.13
15	9.38	4.26	.47	.21
21	13.13	5.96	.66	.30
25	15.63	7.10	.78	.35
31	19.38	8.80	.97	.44
37	23.13	10.50	1.16	.53
51	31.88	14.47	1.59	.72
100	62.50	28.38	3.13	1.42

## Features

- *Plug & socket versions available in 9, 15, 21, 25, 31, 37, 51, and 100 positions.*
- *Flow-through design facilitates inspection and cleaning after soldering.*
- *All terminal block connectors use standard mounting hardware.*
- *Metal shell provides EMI/RFI shielding capability.*
- *Available in 3 styles: Straight mount, 90° right-angle mount, and 90° right-angle narrow profile mounting.*
- *Silicone elastomer interfacial seal protects contacts from moisture and isolates them from each other and from the metal shell.*
- *Meets requirements of MIL-PRF-83513-D.*
- *Choice of insulator materials.*

**Insulator:** UL94V-0 glass-filled polyester or diallyl phthalate

**Contacts:** Pins - Copper alloy, Sockets - Copper alloy (machined)

**Contact Plating:** .000050 in gold

**Shell:** Aluminum alloy

**Shell Plating:** Yellow chromate over cadmium (std.) or electroless nickel

**Current Rating:** 3 Amps maximum

**Withstanding Voltage:** 600 VAC RMS @ sea level, 150 VAC @ 70,000 ft.

**Contact Resistance:** 8 milliohms maximum

**Insulation Resistance:** 1,000 megohms min between adjacent pins

**Individual Contact:** 170.40 g maximum insertion force;  
14.20 g minimum withdrawal force

**Mating / Unmating Forces:** See table