

## **General Information**

## **Microminiature D Connectors**



## Introduction

### **Product Facts**

- Designed for both military and commercial applications
- Low engaging force is achieved by the manner in which Twist/Con Twist Pin Contacts are designed
- The metal shell and plastic shell are available with solder cup and solid or stranded wire terminations
- Mating force maximum is 10 oz. times the number of contacts
- Durability No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating
- Current Rating 3 amps max per contact

MICRODOT Connectors MCK and MCD High Density Microminiature "D" Connectors comprise a complete connector system, which is adaptable to a numerous variety of form factors. Low engaging force is achieved by the manner in which the Twist/Con twist pin contacts are designed. By constructing the male contact as a breathing helical spring, electrical contact is achieved at many points around the periphery of the pin bundle rather than at a few discrete points, as in conventional pin designs. Normal twist pin engagement force is 6 ounces typically and 8 ounces maximum. The low force twist pins exhibit an engaging force of 4 oz. typically and 5 oz. maximum. Low force twist pins are standard in MIL-PRF-83513 configurations of MCK and MCD connectors and may be supplied as an option in all other configurations.

The MCK and MCD Series of connectors are designed to meet the applicable requirements of MIL-PRF-83513, for intermateability, interchangeability, and performance. Designed for both military and commercial applications, the MCK's and MCD's are especially well suited for use in miniaturized airborne and space electronics, computers, and test equipment. The metal shell MCK's and plastic shell MCD's are available with solder cup, and solid or stranded wire terminations. MCK transition blocks are standard for printed circuit board mounting. Custom termination configurations for both MCK and MCD can be accommodated. Micro D's are also supplied in wired harness assemblies.

### **Technical and Performance Data**

## **Electrical**

Contacts - Pin #24 AWG twist pin, Socket #24 AWG precision machined barrel, Wire Range #24 AWG to #30 AWG solid and stranded.

**Contact Resistance -** (voltage drop) 25 millivolts max. at 3 amps,  $25^{\circ} \pm 3^{\circ}$ C.

**Current Rating -** 3 amps max. per contact.

**Dielectric Withstanding Voltage -** Volts RMS 60 Hz at room ambient. At sea level 600V solder pots, 800V wire terminations & transition blocks. At 70,000 ft. 150V solder pots, 200V wire terminations & transition blocks.

**Insulation Resistance -** 5,000 megohms min. (@ 500 VDC) at ambient room temperature.

Magnetic Permeability - 2 mu max.

## Mechanical

Contact Spacing - .050 [1.27mm] centers.

**Contact Engagement & Separation -** Standard contact engaging force is 6.0 oz. (8.0 oz max.), low engaging force contact is 3.5 oz. (5.0 oz. max.). Separation force for both is 0.5 oz. min.

Microminiature D Connectors: General Information

**Mating Force Maximum -** Calculated as 10 oz. times the number of contacts.

## **Environmental**

**Temperature Range -** -55°C to +125°C for MCK/MCD.

**Vibration -** No discontinuity in excess of 1 μ sec. when tested in accordance with MIL-STD-1344, Method 2005, test Condition IV.

Solderability - Connectors shall pass the test requirements of MIL-STD-202, Method 208

Shock - No discontinuity in excess of 1 μ sec. when tested in accordance with MIL-STD-1344, Method 2004, test Condition E.

**Durability -** No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating.

**Humidity** - After exposure to humidity as specified by MIL-STD-1344, Method 1002, Type II, IR shall be 1 megohm min. following step 7a of Method 1002 and 1000 megohms min. after 24 hours of conditioning per Method 1002.

**Salt Spray -** Connectors shall meet the performance requirements of contact resistance, mating and unmating forces, and contact retention after being subjected to the 48-hour 5% solution salt spray test per MIL-STD-1344, Method 1001, Condition B.

**Fluid Immersion -** Unmated connectors after being fully immersed in one of the following fluids, for the prescribed time, will mate at a force of 10 oz. times the number of contacts or less: Perchloroethylene, 2 hours; Lubricating oil per MIL-L-23699, 20 hours.

**Insert Retention** - Inserts will withstand a 50 lb. per square inch load in either direction.

**Crimp Termination Tensile Strength -** (Unassembled contacts with crimped stranded wire terminations) Wires will not pull out of contacts when the following axial loads are applied: #24 AWG, 5 lbs.; #26 AWG, 4 lbs.; #28 AWG, 3 lbs.

## **Materials and Finishes**

**Contacts -** Copper alloy plated with .000050 [.00127] gold over copper flash per MIL-G-45204 Type II.

#### MCK-Metal Shell -

Insulator - Ryton R4, Polyphenylene Sulfide per MIL-M-24519 Interfacial Seal - Fluorosilicone Rubber per MIL-R-25988 (socket side only) Body Shell - Aluminum alloy-high grade plated Cadmium - Per QQ-P-416 Nickel - Electroless per AMS 2404

#### **Transition Block Shell -**

Ryton R4, Polyphenylene Sulfide - Per MIL-M-24519 Potting Material - Epoxy, Black

#### **MCD-Plastic Shell -**

Insulator/Body - Polyester, glass filled per MIL-M-24519, Polyphenylene Sulfide per MIL-M-24519

#### **Wire Terminations -**

Solid copper - Per QQ-W-343, gold plated per MIL-G-45204 Stranded Teflon - Insulated per MIL-W-16878 Stranded Teflon - Insulated per MIL-W-22759/11, /33 Solid copper - Per QQ-W-343, solder dipped (Transition block)

## **TWIST/CON-24 Pins and Sockets**



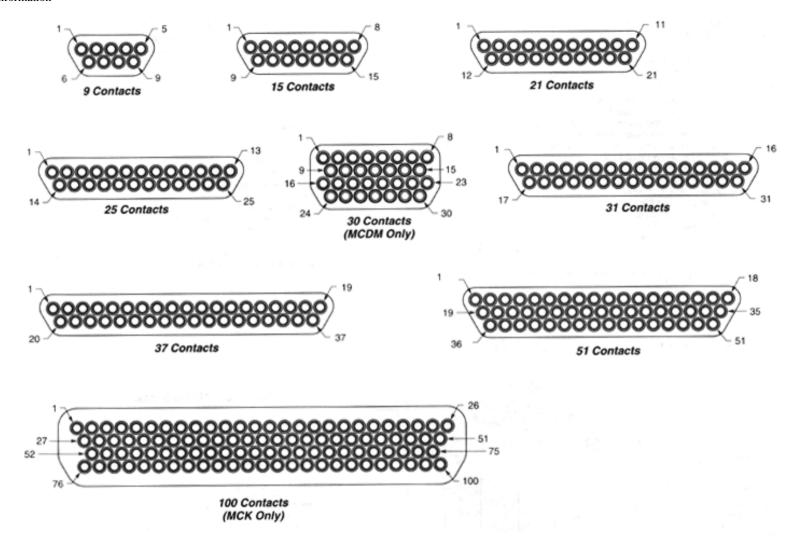


Wire range 24-36 AWG solid and stranded.

The contact spring member normally found in socket contacts has been eliminated by creating a breathing helical spring principle on the pin contact smaller, more durable contacts can be manufactured economically.

## **Contact Arrangements**

Face View of Pin Insert (Socket Side is Mirror Image)



Note: MCK metal shells are not designed to intermate or interchange with MCD plastic shells.

## **MCK Series Metal Shell Connectors**

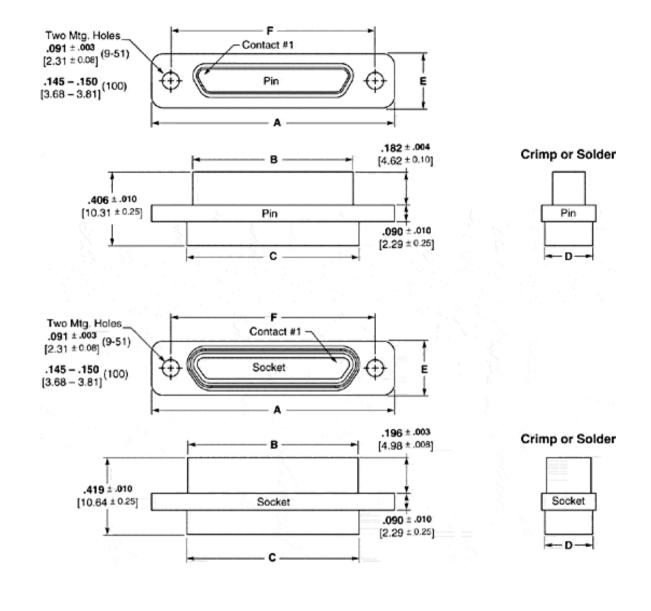
**Dimensions per MIL-PRF-83513** 

Plug (Pin Side)



Receptacle (Socket Side)

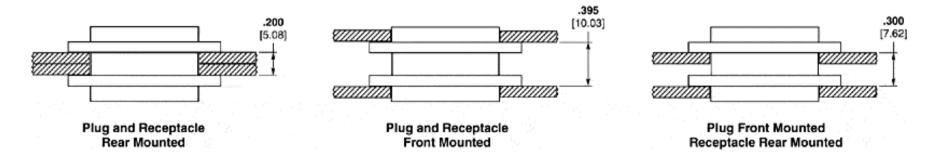




Part Number	A ± .010 [.254]	B Max.	C +.010 [.254] 018 [.457]	D Max	E ±.010 [.254]	F ±.005 [.127
MCK**- 9P***	. <b>775</b>	. <b>333</b>	. <b>390</b>	. <b>270</b>	<b>.298</b>	. <b>565</b>
	19.68	8.46	9.91	6.86	7.57	14.35
MCK**- 9S***	. <b>775</b>	. <b>402</b>	. <b>390</b>	<b>.270</b>	<b>.298</b>	. <b>565</b>
	19.68	10.22	9.91	6.86	7.57	14.35
MCK**- 15P***	<b>.925</b>	. <b>483</b>	. <b>540</b>	. <b>270</b>	<b>.298</b>	<b>.715</b>
	23.50	12.27	13.72	6.86	7.57	18.16
MCK**- 15S***	<b>.925</b>	. <b>552</b>	. <b>540</b>	. <b>270</b>	<b>.298</b>	. <b>715</b>
	23.50	14.03	13.72	6.86	7.57	18.16
MCK**- 21P***	1.075	<b>.633</b>	. <b>690</b>	. <b>270</b>	<b>.298</b>	<b>.865</b>
	27.30	16.08	17.53	6.86	7.57	21.97
MCK**- 21S***	1.075	. <b>702</b>	. <b>690</b>	. <b>270</b>	<b>.298</b>	.865
	27.30	17.84	17.53	6.86	7.57	21.97
MCK**- 25P***	1.175	. <b>733</b>	. <b>790</b>	. <b>270</b>	. <b>298</b>	. <b>965</b>
	29.84	18.62	20.07	6.86	7.57	24.51
MCK**- 25S***	1.175	. <b>802</b>	. <b>790</b>	. <b>270</b>	. <b>298</b>	<b>.965</b>
	29.84	20.38	20.07	6.86	7.57	24.51
MCK**- 31P***	1.325	.883	.940	. <b>270</b>	. <b>298</b>	1.115
	33.66	22.43	23.88	6.86	7.57	28.32
MCK**- 31S***	1.325	<b>.952</b>	. <b>940</b>	. <b>270</b>	. <b>298</b>	1.115
	33.66	24.19	23.88	6.86	7.57	28.32
MCK**- 37P***	1.475	1.033	1.090	. <b>270</b>	. <b>298</b>	<b>1.265</b>
	37.46	26.24	27.69	6.86	7.57	32.13
MCK**- 37S***	1.475	1.102	1.090	. <b>270</b>	. <b>298</b>	1.265
	37.46	28.00	27.69	6.86	7.57	32.13
MCK**- 51P***	1.425	. <b>983</b>	1.040	. <b>310</b>	. <b>341</b>	<b>1.215</b>
	36.20	24.97	26.42	7.87	8.66	30.86
MCK**- 51S***	1.425	1.052	1.040	. <b>310</b>	. <b>341</b>	1.215
	36.20	26.73	26.42	7.87	8.66	30.86
MCK**- 100P***	2.160	1.383	1.432	. <b>360</b>	. <b>384</b>	1.800
	54.86	35.13	36.37	9.15	9.75	45.71
MCK**- 100S***	2.160	1.508	1.432	.360	. <b>384</b>	1.800
	54.86	38.31	36.37	9.15	9.75	45.71

P = Pin, S = Socket

## **Panel Mounting Dimensions - MCK**



## **Panel Cutout Dimensions - MCK**

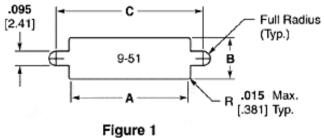
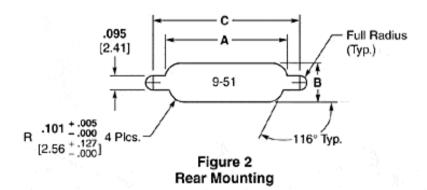
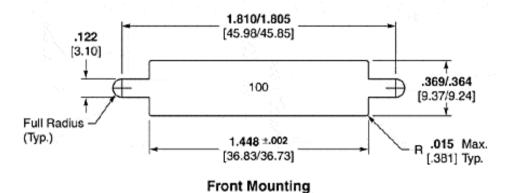
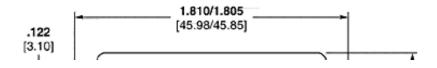
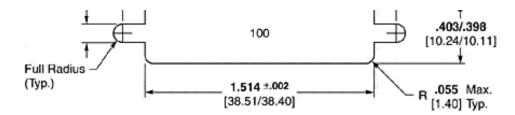


Figure 1 Front Mounting









**Rear Mounting** 

Number of Contacts	Fig.	A + .004 [.102] 000 [.000]	B + .004 [.102] 000 [.000]	C + .005 [.127] 000 [.000]		
9	1	. <b>404</b> 10.26	. <b>274</b> 6.96	.570 14.48		
9	2	. <b>406</b> 10.31	. <b>257</b> 6.53	.570 14.48		
45	1	.554 14.07	.274 6.96	. <b>720</b> 18.29		
15	2	.556 14.12	.257 6.53	. <b>720</b> 18.29		
24	1	. <b>704</b> 17.88	.274 6.96	<b>.870</b> 22.10		
21	2	. <b>706</b> 17.93	.257 6.53	. <b>870</b> 22.10		
25	1	. <b>804</b> 20.42	.274 6.96	.970 24.64		
25	2	. <b>806</b> 20.47	. <b>257</b> 6.53	.970 24.64		
0.4	1	.954 24.23	.274 6.96	1.120 28.45		
31	2	. <b>956</b> 24.28	.257 6.53	1.120 28.45		
37	1	1.104 28.04	.274 6.96	1.270 32.26		
3/	2	1.106 28.09	. <b>257</b> 6.53	1.270 32.26		
51	1	1.054 26.77	. <b>314</b> 7.98	1.220 30.99		
51	2	1.056 26.82	.300 7.62	1.220 30.99		

## **MCD Series Plastic Shell Connectors**

**Screw Mount Dimensions per MIL-PRF-83513** 

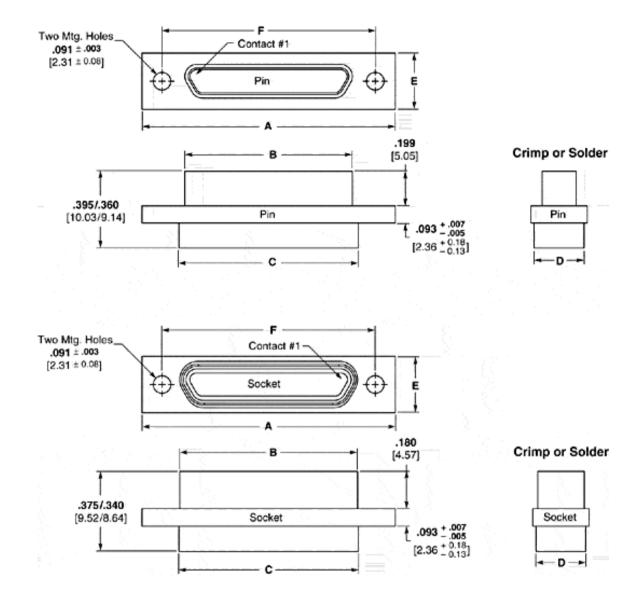
Plug (Pin Side)

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**Receptacle (Socket Side)** 



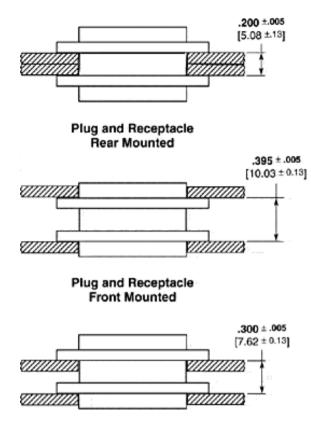


Part Number	A ± .010 [.254]	B Max.	C +.010 [.254] 018 [.457]	D Max	E ±.010 [.254]	F ±.005 [.127]	Avg. Weight lbs. ± 5%
MCD**- 9P***	. <b>788</b> 20.02	.2918 7.412	.398 10.11	. <b>173</b> 4.39	. <b>208</b> 5.28	<b>.565</b> 14.35	.001,7
MCD**- 9S***	. <b>788</b> 20.02	<b>.3798</b> 9.647	. <b>398</b> 10.11	. <b>173</b> 4.39	. <b>208</b> 5.28	<b>.565</b> 14.35	.0016
MCD**- 15P***	. <b>938</b> 23.83	. <b>4418</b> 11.222	. <b>548</b> 13.92	. <b>173</b> 4.39	<b>.208</b> 5.28	. <b>715</b> 18.16	.0024
MCD**- 15S***	. <b>938</b> 23.83	.5298 13.457	. <b>548</b> 13.92	. <b>173</b> 4.39	. <b>208</b> 5.28	. <b>715</b> 18.16	.0023
MCD**- 21P***	1.088 27.64	.5918 15.032	. <b>698</b> 17.73	. <b>173</b> 4.39	<b>.208</b> 5.28	<b>.865</b> 21.97	.0035
MCD**- 21S***	1.088 27.64	<b>.6798</b> 17.267	. <b>698</b> 17.73	. <b>173</b> 4.39	. <b>208</b> 5.28	<b>.865</b> 21.97	.0034
MCD**- 25P***	1.188 30.18	. <b>6918</b> 17.572	. <b>798</b> 20.27	. <b>173</b> 4.39	. <b>208</b> 5.28	<b>.965</b> 24.51	.0042
MCD**- 25S***	1.188 30.18	<b>.7798</b> 19.807	. <b>798</b> 20.27	.173 4.39	. <b>208</b> 5.28	<b>.965</b> 24.51	.0037
MCD**- 31P***	1.338 33.99	. <b>8418</b> 21.382	<b>.948</b> 24.08	. <b>173</b> 4.39	. <b>208</b> 5.28	1.115 28.32	.0053
MCD**- 31S***	1.338 33.99	<b>.9298</b> 23.617	<b>.948</b> 24.08	. <b>173</b> 4.39	. <b>208</b> 5.28	1.115 28.32	.0048
MCD**- 37P***	1.488 37.80	<b>.9918</b> 25.192	1.098 27.89	. <b>173</b> 4.39	.208 5.28	1.265 32.13	.0057
MCD**- 37S***	1.488 37.80	1.0798 27.427	1.098 27.89	.173 4.39	. <b>208</b> 5.28	<b>1.265</b> 32.13	.0051
MCD**- 51P***	1.438 36.53	.9418 23.922	1.048 26.62	<b>.220</b> 5.59	. <b>250</b> 6.35	<b>1.215</b> 30.86	.0072
MCD**- 51S***	1.438 36.53	1.0298 26.157	1.048 26.62	. <b>220</b> 5.59	.250 6.35	1.215 30.86	.0063

P = Pin, S = Socket

Weight given is with 1/2" uninsulated, solid, #24 AWG gold plated copper pigtails.

## **Panel Mounting Dimensions - MCD Screw Mount**



Plug Front Mounted Receptacle Rear Mounted

**Panel Cutout Dimensions - MCD Screw Mount** 

Microminiature D Connectors: General Information

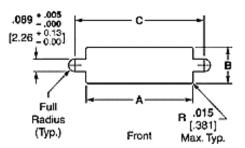


Figure 2

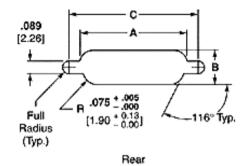
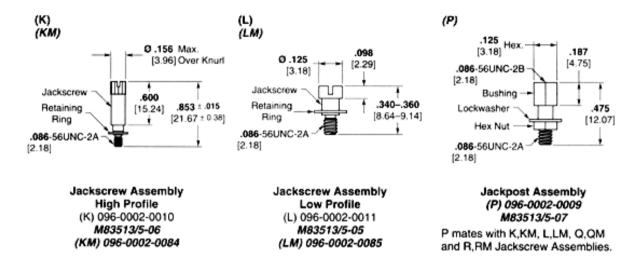


Figure 4

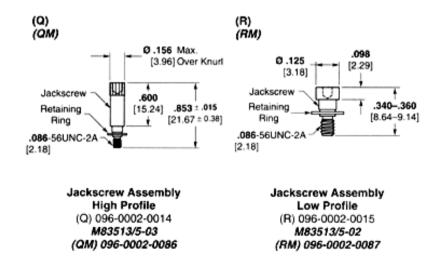
Number of Contacts	Fig.	A + .004 [.102] 000 [.000]	B + .004 [.102] 000 [.000]	C + .005 [.127] 000 [.000]
9	2	.412 [10.46]	.177 [4.50]	.570 [14.48]
	4	.384 [9.75]	.222 [5.64]	.570 [14.48]
15	2	.562 [14.27]	.177 [4.50]	.720 [18.29]
	4	.534 [13.56]	.222 [5.64]	.720 [18.29]
21	2	.712 [18.08]	.177 [4.50]	.870 [22.10]
	4	.684 [17.37]	.222 [5.64] .177 [4.50] .222 [5.64] .177 [4.50]	.870 [22.10]
25	2	.812 [20.62]	.177 [4.50]	.970 [24.64]
20	4	.784 [19.91]	.222 [5.64]	.970 [24.64]
31	2	.962 [24.43]	.177 [4.50]	1.120 [28.45]
31	4	.934 [23.72]	.222 [5.64]	1.120 [28.45]
37	2	1.112 [28.24]	.177 [4.50]	1.270 [32.26]
37	4	1.084 [27.53]	.222 [5.64]	1.270 [32.26]
51	2	1.062 [26.97]	.224 [5.69]	1.220 [30.99]
31	4	1.034 [26.26]	.264 [6.71]	1.220 [30.99]

## Mounting and Coupling Hardware for Screw Mount MCK and MCD

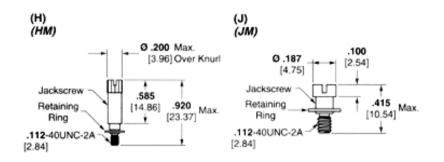
#### 9-51 Contacts - Slot Head



#### 9-51 Contacts - 1/16" Allen Head



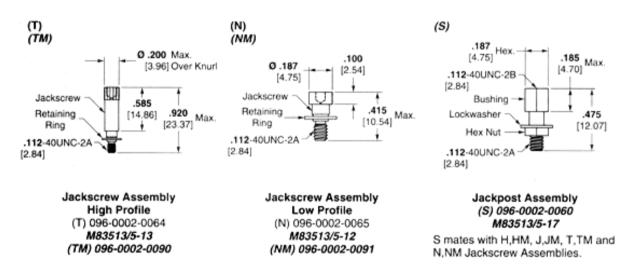
100 Contacts - Slot Head



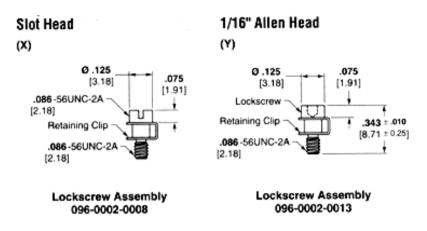
Jackscrew Assembly High Profile (H) 096-0002-0061 M83513/5-16 (HM) 096-0002-0088

Jackscrew Assembly Low Profile (J) 096-0002-0062 *M83513/5-15* (JM) 096-0002-0089

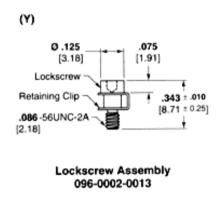
#### 100 Contacts - 1/16" Allen Head



**Slot Head** 



#### 1/16" Allen Head

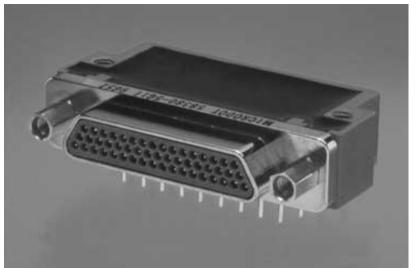


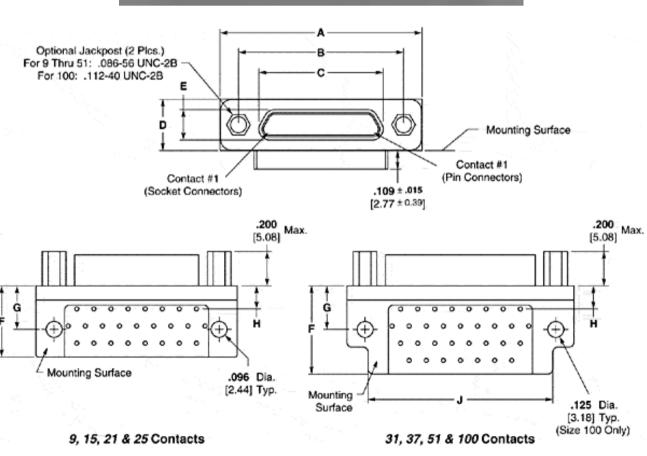
#### **Notes:**

- 1. Jackpost Assemblies will accommodate 3/32" max. thickness panel.
- 2. Letter(s) in parentheses is to assist in ordering hardware with the connector.
- 3. Single letters (e.g. K) designate hardware that meets M83513/5 requirements except the material is 303 stainless steel, passivated.
- 4. Add M suffix (e.g. KM) to designate hardware that meets all M83513/5 requirements. Material is corrosion resistant steel, non-magnetic, 125,000 PSI tensile strength minimum (Applies to jackscrews only).
- 5. Hardware ordered separately should be ordered in pairs; i.e. 2 pcs. P/N 096-0002-0009 per connector half.
- 6. Items in bold italic are qualified to MIL-PRF-83513

## **MCK Transition Blocks (PCB Connectors)**

#### **RT-1 - Right Angle Termination Configurations**



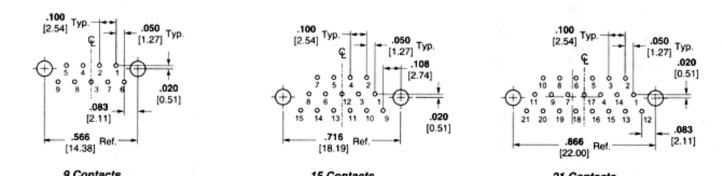


Part Number	A	B	C	D	E	F	G	H	J
	Max.	± 005 [.127]	Max.	Max.	Max.	Max.	+.010 [.254]	+.010 [.254]	Max.
MCK-**- *- 9PRT	7 .785 19.94	<b>.565</b> 14.35	.333 8.46	.308 7.83	<b>.184</b> 4.68	. <b>420</b> 10.67	.250 6.35	.230 5.84	_
MCK-**- *- 9SR7	7 .785 19.94	.565 14.35	. <b>402</b> 10.22	.308 7.83	.250 6.35	. <b>420</b> 10.67	.250 6.35	. <b>230</b> 5.84	_
MCK-**- *- 15PRT	, .935 23.75	.715 18.16	. <b>483</b> 12.27	.308 7.83	.184 4.68	. <b>420</b> 10.67	.250 6.35	.130 3.30	_
MCK-**- *- 15SRT	, .935 23.75	.715 18.16	.552 14.03	.308 7.83	.250 6.35	. <b>420</b> 10.67	.250 6.35	.130 3.30	_
MCK-**- *- 21PR1	1.085 27.56	.865 21.97	.633 16.08	.308 7.83	.184 4.68	. <b>420</b> 10.67	. <b>250</b> 6.35	. <b>130</b> 3.30	_
MCK-**- *- 21SRT	1.085 27.56	.865 21.97	. <b>702</b> 17.84	. <b>308</b> 7.83	. <b>250</b> 6.35	.420 10.67	. <b>250</b> 6.35	.130 3.30	_
MCK-**- *- 25PRT	1.185 30.10	<b>.965</b> 24.51	. <b>733</b> 18.62	.308 7.83	.184 4.68	. <b>420</b> 10.67	. <b>250</b> 6.35	.130 3.30	_
MCK-**- *- 25SR1	7 1.185 30.10	. <b>965</b> 24.51	. <b>802</b> 20.38	. <b>308</b> 7.83	. <b>250</b> 6.35	. <b>420</b> 10.67	.250 6.35	.130 3.30	_
MCK-**- *- 31PRT	1.335	1.115	. <b>883</b>	.308	.184	. <b>520</b>	. <b>250</b>	.130	1.085
	33.91	28.32	22.43	7.83	4.68	13.21	6.35	3.30	27.56
MCK-**- *- 31SR1	1.335	1.115	.952	.308	.250	.520	.250	.130	1.085
	33.91	28.32	24.19	7.83	6.35	13.21	6.35	3.30	27.56
MCK-**- *- 37PR1	1.485	1.265	1.033	.308	.184	. <b>520</b>	. <b>250</b>	.130	1.185
	37.72	32.13	26.24	7.83	4.68	13.21	6.35	3.30	30.10
MCK-**- *- 37SR1	1.485	1.265	1.102	.308	.250	.520	.250	.130	1.185
	37.72	32.13	28.00	7.83	6.35	13.21	6.35	3.30	30.10
MCK-**- *- 51PRT	1.435	1.215	.983	.351	<b>.227</b>	. <b>650</b>	.300	.150	1.225
	36.45	30.86	24.97	8.92	5.77	16.51	7.62	3.81	31.88
MCK-**- *- 51SRT	1.435	1.215	1.052	.351	<b>.295</b>	. <b>650</b>	. <b>300</b>	. <b>150</b>	1.225
	36.45	30.86	26.73	8.92	7.50	16.51	7.62	3.81	31.88
MCK-**- *- 100PR1	2.170	1.800	1.383	.394	.270	1.000	. <b>400</b>	. <b>200</b>	1.815
	55.12	45.72	35.13	10.01	6.86	25.40	10.16	5.08	46.11
MCK-**- *- 100SR1	2.170	1.800	1.508	.394	.394	1.000	.400	.200	1.815
	55.12	45.72	38.31	10.01	10.01	25.40	10.16	5.08	46.11

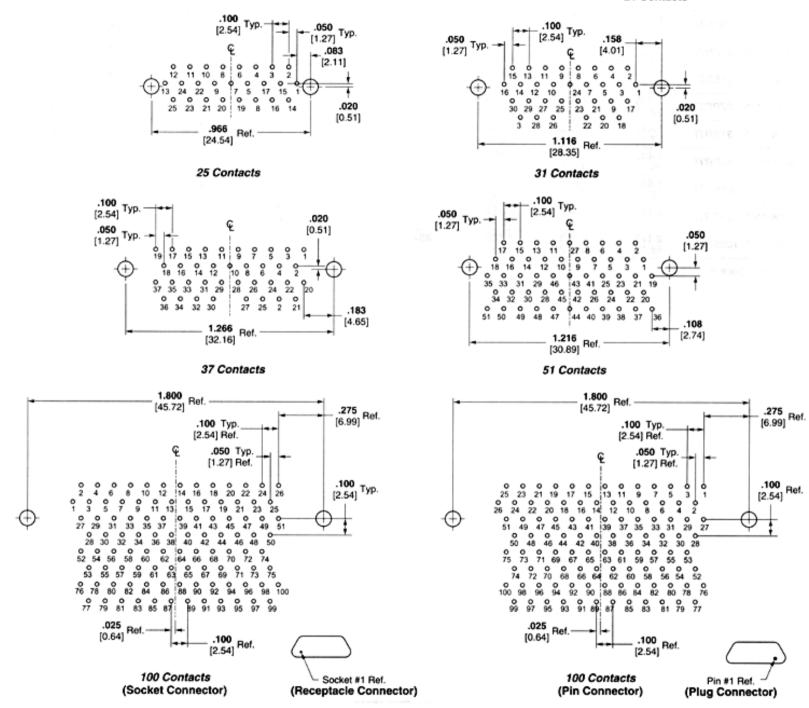
P = Pin, S = Socket

## **RT-1 - Right Angle Termination Configurations**

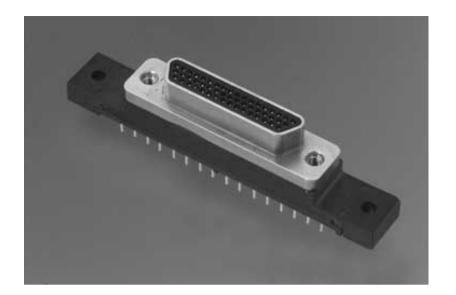
View is from mounting surface of connector. Plug configuration shown. For receptacle, use mirror image (except 100 contacts).

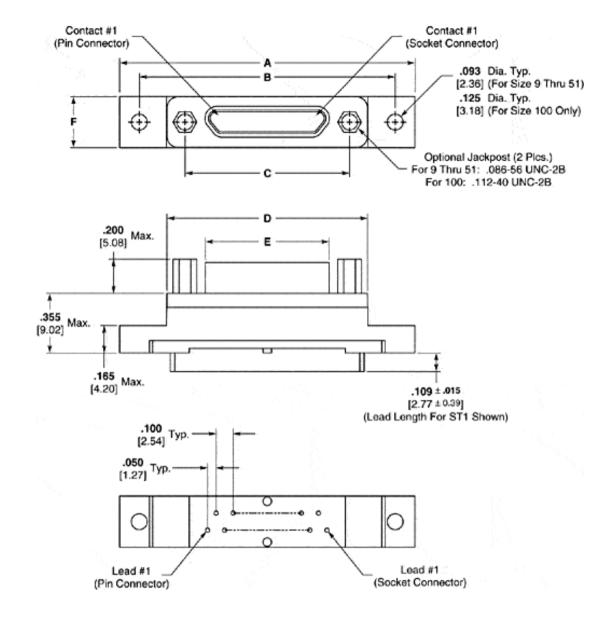


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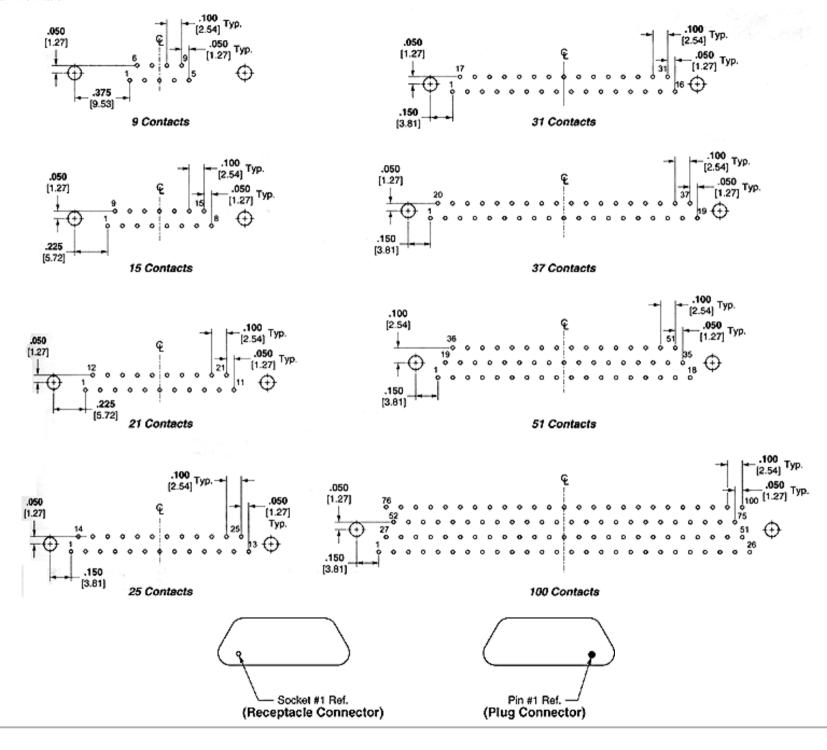




Part Number	A	B	C	D	E	F	G
	Max.	± .005 [.127]	± .005 [.127]	Max.	Max.	Max.	Max.
MCK-**- *- 9PSTI	<b>1.390</b>	1.150	. <b>565</b>	. <b>785</b>	.333	.308	.184
	35.31	29.21	14.35	19.94	8.46	7.83	4.68
MCK-**- *- 9SSTI	1.390	1.150	. <b>565</b>	.785	. <b>402</b>	.308	.250
	35.31	29.21	14.35	19.94	10.22	7.83	6.35
MCK-**- *- 15PSTI	<b>1.390</b>	1.150	.715	. <b>935</b>	.483	.308	.184
	35.31	29.21	18.16	23.75	12.27	7.83	4.68
MCK-**- *- 15SSTI	1.390	1.150	.715	. <b>935</b>	. <b>552</b>	.308	.250
	35.31	29.21	18.16	23.75	14.03	7.83	6.35
MCK-**- *- 21PSTI	1.690	1.450	. <b>865</b>	1.085	. <b>633</b>	.308	.184
	42.93	36.83	21.97	27.56	16.08	7.83	4.68
MCK-**- 21SSTI	1.690	1.450	.865	1.085	. <b>702</b>	.308	.250
	42.93	36.83	21.97	27.56	17.84	7.83	6.35
MCK-**- *- 25PSTI	1.740	1.500	.965	1.185	. <b>733</b>	.308	.184
	44.20	38.10	24.51	30.10	18.62	7.83	4.68
MCK-**- *- 25SSTI	1.740	1.500	.965	1.185	. <b>802</b>	.308	.250
	44.20	38.10	24.51	30.10	20.38	7.83	6.35
MCK-**- *- 31PSTI	<b>2.040</b>	1.800	1.115	1.335	. <b>883</b>	.308	.184
	51.82	45.72	28.32	33.91	22.43	7.83	4.68
MCK-**- *- 31SSTI	2.040	1.800	1.115	1.335	<b>.952</b>	.308	.250
	51.82	45.72	28.32	33.91	24.19	7.83	6.35
MCK-**- *- 37PSTI	2.340	2.100	1.265	1.485	1.033	.308	.184
	59.44	53.34	32.13	37.72	26.24	7.83	4.68
MCK-**- *- 37SSTI	2.340	2.100	1.265	1.485	1.102	.308	.250
	59.44	53.34	32.13	37.72	28.00	7.83	6.35
MCK-**- *- 51PSTI	<b>2.270</b>	2.000	1.215	1.435	.983	. <b>351</b>	. <b>227</b>
	57.66	50.80	30.86	36.45	24.97	8.92	5.77
MCK-**- *- 51SSTI	<b>2.270</b> 57.66	2.000 50.80	1.215 30.86	1.435 36.45	1.052 26.73	.351 8.92	. <b>295</b> 7.50
MCK-**- *- 100PSTI	<b>3.070</b>	2.800	1.800	<b>2.170</b>	1.383	.394	.270
	77.98	71.12	45.72	55.12	35.13	10.01	6.86
MCK-**- *- 100SSTI	3.070	<b>2.800</b>	1.800	2.170	1.508	.394	.394
	77.98	71.12	45.72	55.12	38.31	10.01	10.01

P = Pin, S = Socket

**ST-1 - Straight Termination Configurations**View is from mounting surface of connector. Plug configuration shown. For receptacle, use mirror image.





# RS Components

Part No	Product	Type
MCKN1-B-15P6A1-18.0	4208309	Supplier
MCKN1-B-15S6A1-18.0	4208359	Supplier
MCKN1-B-25P6A1-18.0	4208315	Supplier
MCKN1-B-25S6A1-18.0	4208371	Supplier
MCKN1-B-37P6A1-18.0	4208321	Supplier
MCKN1-B-37S6A1-18.0	4208387	Supplier
MCKN1-B-51P6A1-18.0	4208337	Supplier
MCKN1-B-51S6A1-18.0	4208393	Supplier
MCKN1-B-9P6A1-18.0	4208292	Supplier
MCKN1-B-9S6A1-18.0	4208343	Supplier
MCKN1-P-15PRT1	4208501	Supplier
MCKN1-P-15PST1	4208618	Supplier
MCKN1-P-15SRT1	4208551	Supplier
MCKN1-P-15SST1	4208674	Supplier
MCKN1-P-25PRT1	4208517	Supplier
MCKN1-P-25PST1	4208624	Supplier
MCKN1-P-25SRT1	4208567	Supplier
MCKN1-P-25SST1	4208680	Supplier
MCKN1-P-37PRT1	4208523	Supplier
MCKN1-P-37PST1	4208630	Supplier
MCKN1-P-37SRT1	4208573	Supplier
MCKN1-P-37SST1	4208696	Supplier
MCKN1-P-51PRT1	4208539	Supplier
MCKN1-P-51PST1	4208652	Supplier
MCKN1-P-51SRT1	4208595	Supplier
MCKN1-P-51SST1		Supplier
MCKN1-P-9PRT1	<u>4208494</u>	Supplier
MCKN1-P-9PST1	4208602	Supplier
MCKN1-P-9SRT1		Supplier
MCKN1-P-9SST1	4208668	Supplier