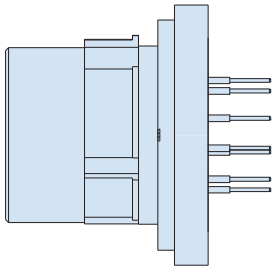


MIL-DTL-38999 Series IV Type

234-208 Panel mount receptacles with PC tails, stepped contacts

ENVIRONMENTAL CONNECTORS



"BETTER-THAN-QPL" FEATURES AND BENEFITS

- Secure breech-lock mating connector meets D38999 shock and vibe
- Glenair Signature Tin Zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500 mating cycles exceeds MIL-DTL-38999 specification

HOW TO ORDER

Sample Part Number	234-208	-D0	NF	11	-35	P	N
Basic Part Number	234-208						
Connector Style	D0 - Receptacle, wall-mount through holes HM = Receptacle, wall-mount w/metric helicoil HS = Receptacle, wall-mount w/standard helicoil						
Material/Finish	(See Table I)						
Shell Size	11, 13, 15, 17, 19, 21, 23, 25						
Insert Arrangement	PER MIL-STD-1560						
Insert Designator	P = Pin Contacts, Gold Plate, 1500 Cycles S = Socket Contact Gold Plate, 1500 Cycles H = Pin Contacts Pd/Ni, 1500 Cycles J = Socket Contact Pd/Ni, 1500 Cycles						
Alternate Polarization	A, B, C, D, K, L, M, R, N = Normal, U = Universal (Glenair Equivalent Only)						

TABLE I - MATERIAL/FINISH

Equiv Class	Sym	Material	Finish
W	NF	Aluminum Alloy	Cad/O.D. over Electroless Nickel
G*	MA**		Electroless Nickel, Matte
T*	MT		Nickel-PTFE
F	ME		Electroless Nickel
AA	MN		MegaNickel
V	TZ		Tin-Zinc
Z*	ZR		Zinc Ni, Black (Tri-Valent CR)
K*	Z1	Stainless Steel	Passivate
L*	ZL		Electrodeposited Nickel

* = Glenair Equivalent Only

** = Connectors for space applications must be ordered with "MA" finish and mod code "-186T" to conform to the thermal vacuum outgassing requirements of class G.

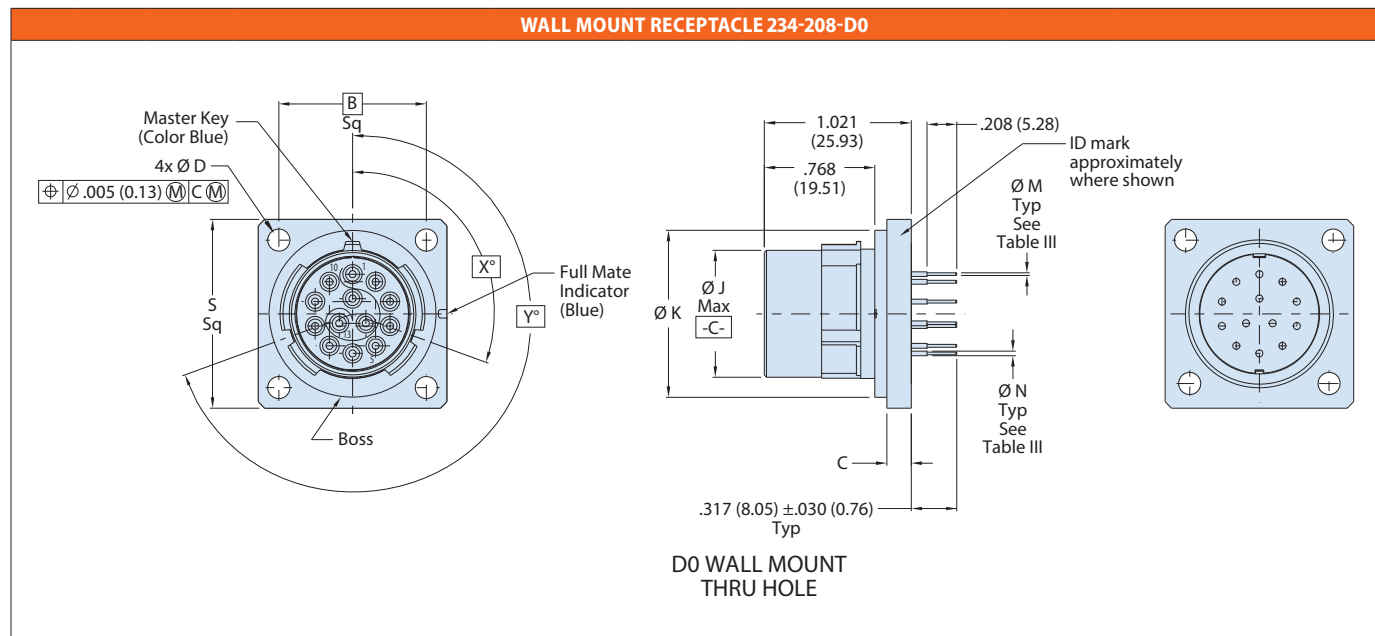
TABLE II - POLARIZING POSITIONS

	N	A	B	C	D	K	L	M	R	U
X	110°	100°	90°	80°	70°	120°	120°	120°	120°	N/A
Y	250°	260°	270°	280°	290°	255°	265°	275°	285°	N/A

TABLE III

Contact Size	PC Tail ØM	PC Tail ØN
#23	.020 (0.51) .018 (0.46)	
#22	.020 (0.51) .018 (0.46)	.050 (1.27) .044 (1.12)
#20	.030 (0.76) .028 (0.71)	.060 (1.52) .054 (1.37)
#16	.040 (1.02) .038 (0.97)	.076 (1.93) .070 (1.78)
#12	.072 (1.83) .070 (1.78)	.106 (2.69) .100 (2.54)

MIL-DTL-38999 Series IV Type 234-208 Panel mount receptacles with PC tails, stepped contacts



Shell Size	Shell Size Code	B Bsc	C	C'	Ø D	Ø J Max	Ø K	L Thread	L' Thread	S	S'
11	B	.812 (20.62)	.102 (2.6) .083 (2.1)	.179 (4.5) .140 (3.6)	.138 (3.5) .122 (3.1)	.509 (12.93)	.793 (20.15) .778 (19.76)	.112-40 UNC	M3 X 0.5	1.051 (26.7) 1.008 (25.6)	1.202 (30.5) 1.162 (29.5)
13	C	.906 (23.02)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.634 (16.10)	.913 (23.35) .904 (22.96)			1.146 (29.1) 1.102 (28.0)	1.296 (32.8) 1.256 (31.9)
15	D	.969 (24.61)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.759 (19.28)	1.044 (26.52) 1.029 (26.13)			1.240 (31.5) 1.197 (30.4)	1.359 (34.5) 1.319 (33.5)
17	E	1.062 (26.98)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.885 (22.48)	1.170 (29.72) 1.155 (29.33)			1.335 (33.9) 1.291 (32.8)	1.452 (36.9) 1.412 (35.9)
19	F	1.156 (29.36)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	1.009 (25.63)	1.294 (32.87) 1.279 (32.48)			1.461 (37.1) 1.417 (36.0)	1.546 (39.3) 1.506 (38.3)
21	G	1.250 (31.76)	.134 (3.4) .114 (2.9)	.190 (4.8) .170 (4.3)	.138 (3.5) .122 (3.1)	1.134 (28.80)	1.419 (36.05) 1.404 (35.66)	.138-32 UNC	M4 X 0.7	1.583 (40.2) 1.539 (39.1)	1.640 (41.7) 1.600 (40.6)
23	H	1.375 (34.93)	.134 (3.4) .114 (2.9)		.157 (4.0) .142 (3.6)	1.259 (31.98)	1.544 (39.22) 1.529 (38.83)			1.709 (43.4) 1.665 (42.3)	1.765 (44.8) 1.725 (43.8)
25	J	1.500 (38.10)	.134 (3.4) .114 (2.9)		.157 (4.0) .142 (3.6)	1.384 (35.15)	1.669 (42.40) 1.654 (42.01)			1.835 (46.6) 1.791 (45.5)	1.890 (48.0) 1.850 (47.0)

TABLE IV - PANEL CUT-OUT

Shell Size	Shell Size Code	ØKK Min	BB Bsc	ØDD	ØLL Min
11	B	0.796 (20.22)	0.812 (20.62)	.133/.123	0.625 (15.88)
13	C	0.922 (23.42)	0.906 (23.01)		0.750 (19.05)
15	D	1.047 (26.59)	0.969 (24.61)		0.906 (23.01)
17	E	1.219 (30.96)	1.062 (26.97)		1.016 (25.81)
19	F	1.297 (32.94)	1.156 (29.36)		1.141 (28.98)
21	G	1.422 (36.12)	1.250 (31.75)	.159/.149	1.266 (32.16)
23	H	1.547 (39.29)	1.375 (34.93)		1.375 (34.93)
25	J	1.672 (42.47)	1.500 (38.10)		1.484 (37.69)

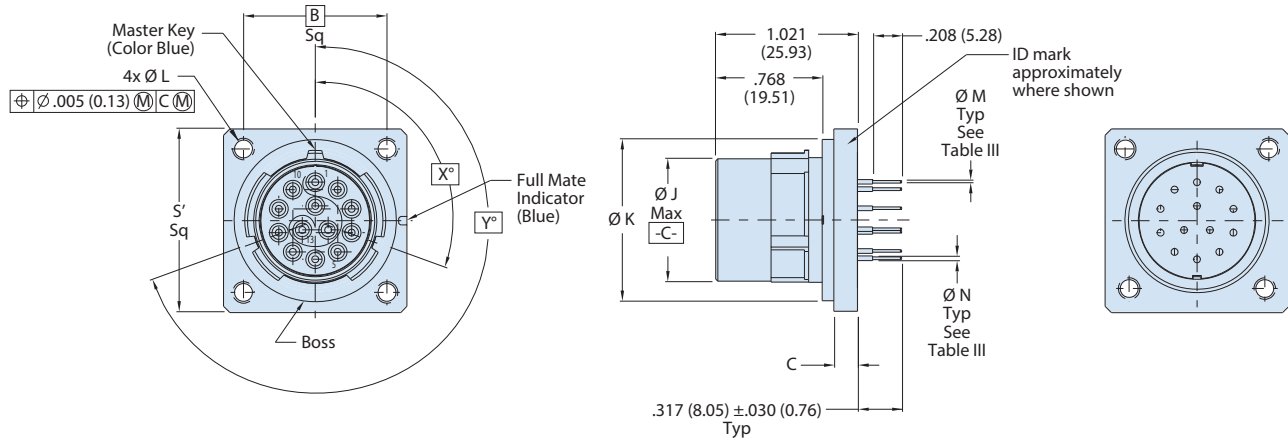
The diagram shows a circular panel cut-out with the following dimensions:

- BB**: Overall diameter of the cut-out.
- ØKK**: Diameter of the mounting holes.
- ØDD**: Diameter of the contact pins.
- ØLL**: Diameter of the contact pins.
- 4X ØDD**: Four mounting holes.
- A-**: Surface finish specification.
- Ø .005 (0.13) M A M**: Surface finish specification for the mounting holes.

MIL-DTL-38999 Series IV Type

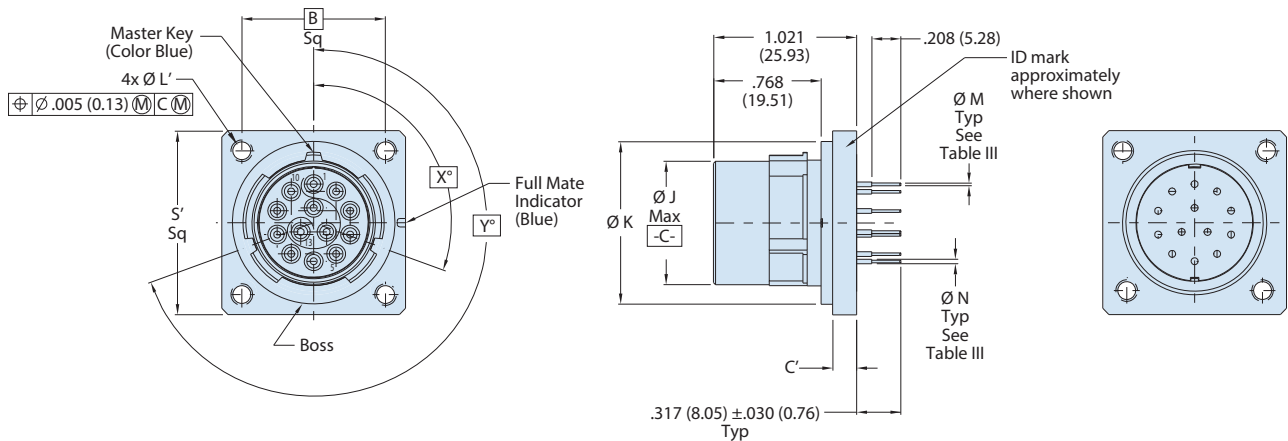
234-208 Panel mount receptacles with PC tails, stepped contacts

WALL MOUNT RECEPTACLE 234-208 -HS



HS WALL MOUNT
STANDARD HELICOIL

WALL MOUNT RECEPTACLE 234-208 -HM



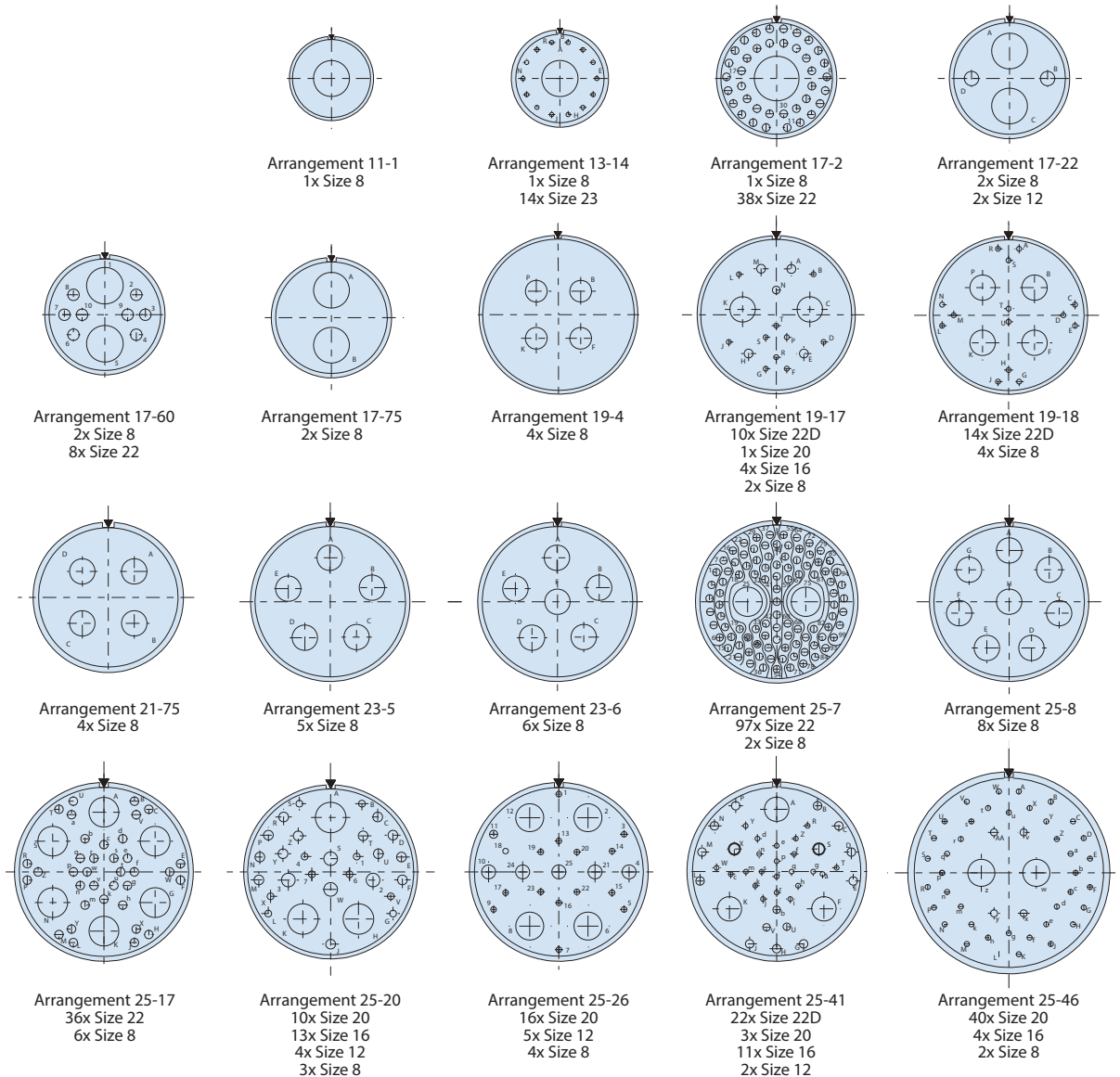
HM WALL MOUNT
METRIC HELICOIL

NOTES

- Material/Finish:
 - Shell Finish - See Table I
 - Insulator - High Grade Rigid Dielectric
 - Contacts - Copper Alloy
 - Potting - Epoxy.
- Insert arrangement in accordance with MIL-STD-1560. Contact factory for additional insert arrangements.
- Insert arrangement shown is for reference only.
- Glenair 234-208 series connectors are designed to meet the applicable performance and interface requirements of MIL-DTL-38999, Series IV except as noted. Connector mates with any QPL manufacturer's MIL-DTL-38999 Series IV connectors with the same size insert, arrangement, and polarization.
- Glenair's 234-208 receptacle connector is designed to withstand a minimum of 1500 mating durability cycles when mate to a "Super Nine" plug and appropriate contacts finish should be the same for both mating connectors to optimize performance.

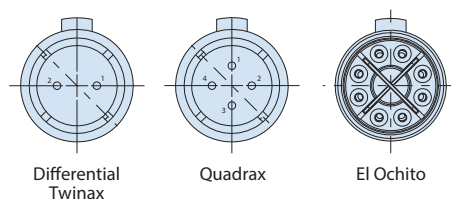
MIL-DTL-38999 Series IV Type 234-217 High-speed plug, and panel mount and jam nut receptacles ins. arrangements

HIGH-SPEED AND HYBRID INSERT ARRANGEMENTS



Insert arrangements, mating face of pin insert shown. Replace X with C, D, E, Q, P, or T (See Table III).

CONTACT INNER PIN ORIENTATION



BREECH-LOCK ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail insert arrangements

FIGURE 1 - INSERT ARRANGEMENTS

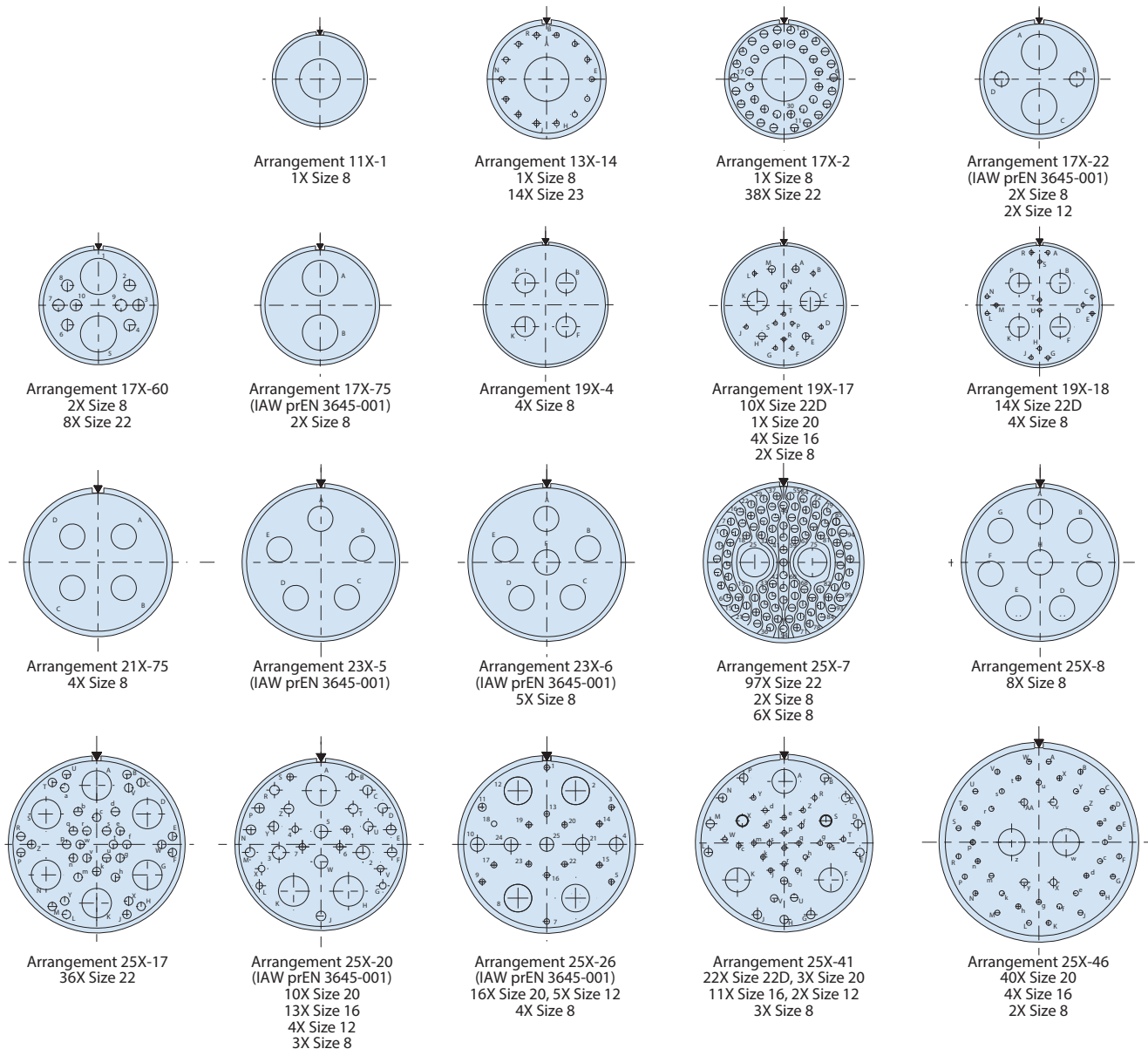
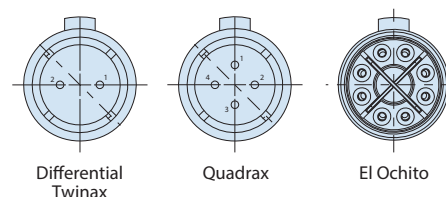


Figure 1
 Insert arrangements, mating
 face of pin insert shown.
 Replace X with C, D, E, Q or T
 (See Table VI)

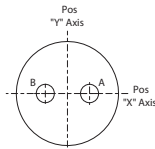
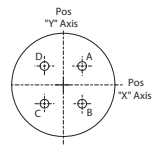
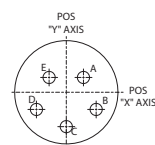
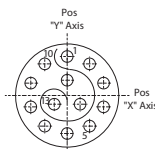
FIGURE 2 - CONTACT INNER PIN ORIENTATION



PCB Footprints: Standard

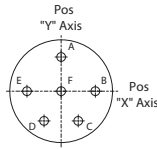
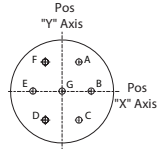
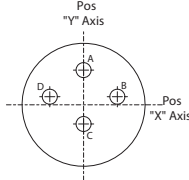
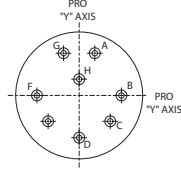
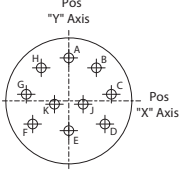
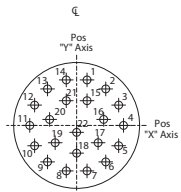
PCB FOOTPRINTS

Mating face of pin insert shown (socket will be opposite)

11-2 2 #16		<table><tr><th rowspan="2">I.D. No.</th><th colspan="2">Location</th></tr><tr><th>X</th><th>Y</th></tr><tr><td>A</td><td>.095</td><td>.000</td></tr><tr><td>B</td><td>-.095</td><td>.000</td></tr></table>			I.D. No.	Location		X	Y	A	.095	.000	B	-.095	.000																																											
I.D. No.	Location																																																									
	X	Y																																																								
A	.095	.000																																																								
B	-.095	.000																																																								
11-4 4 #20		<table><tr><th rowspan="2">I.D. No.</th><th colspan="2">Location</th></tr><tr><th>X</th><th>Y</th></tr><tr><td>A</td><td>.065</td><td>.065</td></tr><tr><td>B</td><td>.065</td><td>-.065</td></tr><tr><td>C</td><td>-.065</td><td>-.065</td></tr><tr><td>D</td><td>-.065</td><td>.065</td></tr></table>			I.D. No.	Location		X	Y	A	.065	.065	B	.065	-.065	C	-.065	-.065	D	-.065	.065																																					
I.D. No.	Location																																																									
	X	Y																																																								
A	.065	.065																																																								
B	.065	-.065																																																								
C	-.065	-.065																																																								
D	-.065	.065																																																								
11-5 5 #20		<table><tr><th rowspan="2">I.D. No.</th><th colspan="2">Location</th></tr><tr><th>X</th><th>Y</th></tr><tr><td>A</td><td>.065</td><td>.056</td></tr><tr><td>B</td><td>.113</td><td>-.065</td></tr><tr><td>C</td><td>.000</td><td>-.130</td></tr><tr><td>D</td><td>-.113</td><td>-.065</td></tr><tr><td>E</td><td>-.065</td><td>.056</td></tr></table>			I.D. No.	Location		X	Y	A	.065	.056	B	.113	-.065	C	.000	-.130	D	-.113	-.065	E	-.065	.056																																		
I.D. No.	Location																																																									
	X	Y																																																								
A	.065	.056																																																								
B	.113	-.065																																																								
C	.000	-.130																																																								
D	-.113	-.065																																																								
E	-.065	.056																																																								
11-35 13 #22D		<table><tr><th rowspan="2">I.D. No.</th><th colspan="2">Location</th><th rowspan="2">I.D. No.</th><th colspan="2">Location</th></tr><tr><th>X</th><th>Y</th><th>X</th><th>Y</th></tr><tr><td>1</td><td>.000</td><td>.146</td><td>8</td><td>-.138</td><td>-.045</td></tr><tr><td>2</td><td>.085</td><td>.118</td><td>9</td><td>-.138</td><td>.045</td></tr><tr><td>3</td><td>.138</td><td>.045</td><td>10</td><td>-.085</td><td>.118</td></tr><tr><td>4</td><td>.138</td><td>-.045</td><td>11</td><td>.000</td><td>.056</td></tr><tr><td>5</td><td>.085</td><td>-.118</td><td>12</td><td>.049</td><td>-.035</td></tr><tr><td>6</td><td>.000</td><td>-.146</td><td>13</td><td>-.049</td><td>-.035</td></tr><tr><td>7</td><td>-.085</td><td>-.118</td><td></td><td></td><td></td></tr></table>					I.D. No.	Location		I.D. No.	Location		X	Y	X	Y	1	.000	.146	8	-.138	-.045	2	.085	.118	9	-.138	.045	3	.138	.045	10	-.085	.118	4	.138	-.045	11	.000	.056	5	.085	-.118	12	.049	-.035	6	.000	-.146	13	-.049	-.035	7	-.085	-.118			
I.D. No.	Location		I.D. No.	Location																																																						
	X	Y		X	Y																																																					
1	.000	.146	8	-.138	-.045																																																					
2	.085	.118	9	-.138	.045																																																					
3	.138	.045	10	-.085	.118																																																					
4	.138	-.045	11	.000	.056																																																					
5	.085	-.118	12	.049	-.035																																																					
6	.000	-.146	13	-.049	-.035																																																					
7	-.085	-.118																																																								

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

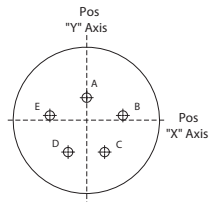
11-98 6 #20		I.D. No.			Location		
					X	Y	
		A			.000	.130	
		B			.130	.000	
		C			.065	-.113	
		D			-.065	-.113	
11-99 7 #20		I.D. No.			Location		
					X	Y	
		A			.065	.113	
		B			.130	.000	
		C			.065	-.113	
		D			-.065	-.113	
13-4 4 #16		I.D. No.			Location		
					X	Y	
		A			.000	.150	
		B			.146	.035	
		C			.000	-.083	
		D			-.146	.035	
13-8 8 #20		I.D. No.			Location		
					X	Y	
		A			.065	.157	
		B			.170	.000	
		C			.120	-.120	
		D			.000	-.170	
13-98 10 #20		I.D. No.			Location		
					X	Y	
		A			.000	.195	
		B			.125	.150	
		C			.193	.030	
		D			.164	-.105	
13-35 22 #22D		I.D. No.			Location		
					X	Y	
		1			.045	.197	
		2			.126	.158	
		3			.182	.088	
		4			.203	.000	
		I.D. No.			Location		
					X	Y	
		12			-.182	.088	
		13			-.126	.158	
		14			-.045	.197	
		15			.045	.107	
		I.D. No.			Location		
					X	Y	
		16			.117	.026	
		17			.093	-.075	
		18			.000	-.120	
		19			-.093	-.075	
		I.D. No.			Location		
					X	Y	
		20			-.117	.026	
		21			-.045	.107	
		22			.000	-.030	

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

15-5

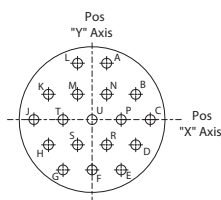
5 #16



I.D. No.	Location	
	X	Y
A	.000	.100
B	.174	.024
C	.094	-.148
D	-.094	-.148
E	-.174	.024

15-18

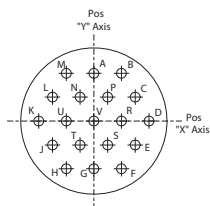
18 #20



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.065	.252	K	-.195	.113
B	.195	.113	L	-.065	.252
C	.260	.000	M	-.065	.113
D	.195	-.113	N	.065	.113
E	.130	-.225	P	.130	.000
F	.000	-.225	R	.065	-.113
G	-.130	-.225	S	-.065	-.113
H	-.195	-.113	T	-.130	.000
J	-.260	.000	U	.000	.000

15-19

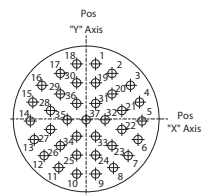
19 #20



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.225	L	-.195	.113
B	.130	.225	M	-.130	.225
C	.195	.113	N	-.065	.113
D	.260	.000	P	.065	.113
E	.195	-.113	R	.130	.000
F	.130	-.225	S	.065	-.113
G	.000	-.225	T	-.065	-.113
H	-.130	-.225	U	-.130	.000
J	-.195	-.113	Y	.000	.000
K	-.260	.000			

15-35

37 #22D



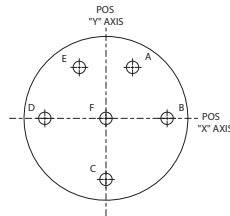
I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
1	.045	.262	20	.123	.119
2	.123	.217	21	.170	.040
3	.211	.160	22	.170	-.050
4	.254	.080	23	.123	-.127
5	.266	-.010	24	.045	-.172
6	.247	-.098	25	-.045	-.172
7	.200	-.175	26	-.123	-.127
8	.130	-.232	27	-.170	-.050
9	.045	-.262	28	-.170	.040
10	-.045	-.262	29	-.123	.119
11	-.130	-.232	30	-.045	.172
12	-.200	-.175	31	.045	.074
13	-.247	-.098	32	.090	-.004
14	-.266	-.010	33	.045	-.082
15	-.254	.080	34	-.045	-.082
16	-.211	.160	35	-.090	-.004
17	-.123	.217	36	-.045	.074
18	-.045	.262	37	.000	-.004
19	.045	.172			

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

17-6

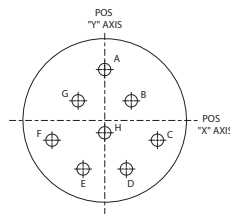
6 #12



I.D. No.	Location	
	X	Y
A	.121	.209
B	.241	.000
C	.000	-.241
D	-.241	.000
E	-.121	.209

17-8

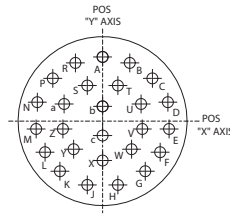
8 #16



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.236	E	-.094	-.216
B	.128	.086	F	-.230	-.078
C	.230	-.078	G	-.128	.086
D	.094	-.216	H	.000	-.052

17-26

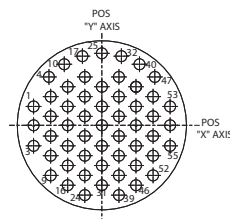
26 #20



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.321	P	-.239	.214
B	.131	.293	R	-.131	.293
C	.239	.214	S	-.070	.177
D	.305	.099	T	.070	.177
E	.319	-.034	U	.175	.094
F	.278	-.161	V	.178	-.036
G	.189	-.260	W	.119	-.151
H	.067	-.314	X	.000	-.203
J	-.067	-.314	Y	-.119	-.151
K	-.189	-.260	Z	-.178	-.036
L	-.278	-.161	a	-.175	.094
M	-.319	-.034	b	.000	.065
N	-.305	.099	c	.000	-.065

17-35

55 #22D



I.D. No.	Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	-.312	.086	20	-.078	.041	39	.078	-.319
2	-.312	-.004	21	-.078	-.049	40	.172	.279
3	-.312	-.094	22	-.078	-.139	41	.156	.176
4	-.242	.221	23	-.078	-.229	42	.156	.086
5	-.234	.131	24	-.078	-.319	43	.156	-.004
6	-.234	.041	25	.000	.329	44	.156	-.094
7	-.234	-.049	26	.000	.176	45	.156	-.184
8	-.234	-.139	27	.000	.086	46	.156	-.274
9	-.234	-.229	28	.000	-.004	47	.242	.221
10	-.172	.279	29	.000	-.094	48	.234	.131
11	-.156	.176	30	.000	-.184	49	.234	.041
12	-.156	.086	31	.000	-.274	50	.234	-.049
13	-.156	-.004	32	.089	.316	51	.234	-.139
14	-.156	-.094	33	.078	.221	52	.234	-.229
15	-.156	-.184	34	.078	.131	53	.312	.086
16	-.156	-.274	35	.078	.041	54	.312	-.004
17	-.089	.316	36	.078	-.049	55	.312	-.094
18	-.078	.221	37	.078	-.139			
19	-.078	.131	38	.078	-.229			

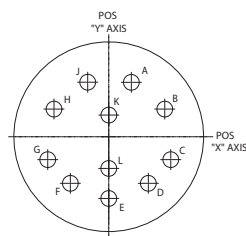
PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

19-11

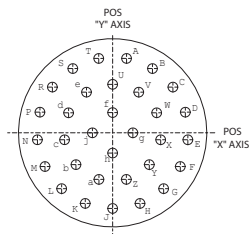
11 #16



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	0.105	0.26	G	-0.275	-0.053
B	0.25	0.132	H	-0.25	0.132
C	0.275	-0.053	J	-0.105	0.26
D	0.179	-0.215	K	0	0.105
E	0	-0.281	L	0	-0.092
F	-0.179	-0.215	--	--	--

19-32

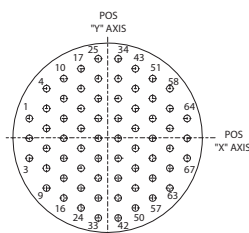
32 #20



I.D. No.	-Location		I.D. No.	Location	
	X	Y		X	Y
A	.066	.353	T	-.066	.353
B	.189	.305	U	0	.230
C	.286	.217	V	.124	.193
D	.345	.098	W	.209	.095
E	.357	-.033	X	.228	-.033
F	.321	-.160	Y	.174	-.151
G	.242	-.265	Z	.065	-.221
H	.130	-.335	a	-.065	-.221
J	0	-.359	b	-.174	-.151
K	-.130	-.335	c	.228	-.033
L	-.242	-.265	d	-.209	.095
M	-.321	-.160	e	-.124	.193
N	-.357	-.033	f	0	.096
P	-.345	.098	g	.096	0
R	-.286	.217	h	0	-.096
S	-.189	.305	j	-.096	0

19-35

66 #22D



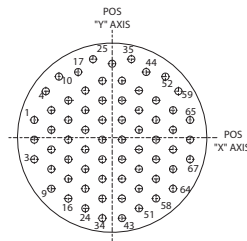
I.D. No.	-Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	-.357	.090	23	-.123	-.225	45	.123	.135
2	-.357	.000	24	-.123	-.315	46	.123	.045
3	-.357	-.090	25	-.045	.360	47	.123	-.045
4	-.279	.225	26	-.045	.270	48	.123	-.135
5	-.279	.135	27	-.045	.180	49	.123	-.225
6	-.279	.045	28	-.045	.090	50	.123	-.315
7	-.279	-.045	29	-.045	.000	51	.201	.270
8	-.279	-.135	30	-.045	-.090	52	.201	.180
9	-.279	-.225	31	-.045	-.180	53	.201	.090
10	-.201	.270	32	-.045	-.270	54	.201	.000
11	-.201	.180	33	-.045	-.360	55	.201	-.090
12	-.201	.090	34	.045	.360	56	.201	-.180
13	-.201	.000	35	.045	.270	57	.201	-.270
14	-.201	-.090	36	.045	.180	58	.279	.225
15	-.201	-.180	37	.045	.090	59	.279	.135
16	-.201	-.270	38	.045	.000	60	.279	.045
17	-.123	.315	39	.045	-.090	61	.279	-.045
18	-.123	.225	40	.045	-.180	62	.279	-.135
19	-.123	.135	41	.045	-.270	63	.279	-.225
20	-.123	.045	42	.045	-.360	64	.357	.090
21	-.123	-.045	43	.123	.315	65	.357	.000
22	-.123	-.135	44	.123	.225	66	.357	-.090

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

19-45

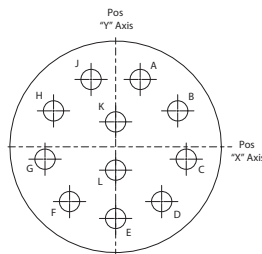
67 #22D



I.D. No.	-Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	-.357	.081	24	-.123	-.324	47	.123	.036
2	-.357	-.009	25	-.088	.360	48	.123	-.054
3	-.357	-.099	26	.000	.339	45	.123	-.144
4	-.304	.213	27	-.045	.261	50	.123	-.234
5	-.279	.126	28	-.045	.171	51	.123	-.324
6	-.279	.036	29	-.045	.081	52	.244	.280
7	-.279	-.054	30	-.045	-.009	53	.201	.171
8	-.279	-.144	31	-.045	-.099	54	.201	.081
9	-.279	-.234	32	-.045	-.189	55	.201	-.009
10	-.244	.280	33	-.045	-.279	56	.201	-.099
11	-.201	.171	34	-.045	-.369	57	.201	-.189
12	-.201	.081	35	.088	.360	58	.201	-.279
13	-.201	-.009	36	.045	.261	59	.304	.213
14	-.201	-.099	37	.045	.171	60	.279	.126
15	-.201	-.189	38	.045	.081	61	.279	.036
16	-.201	-.279	39	.045	-.009	62	.279	-.054
17	-.156	.301	40	.045	-.099	63	.279	-.144
18	-.123	.216	41	.045	-.189	64	.279	-.234
19	-.123	.126	42	.045	-.279	65	.357	.081
20	-.123	.036	43	.045	-.369	66	.357	-.009
21	-.123	-.054	44	.156	.301	67	.357	-.099
22	-.123	-.144	45	.123	.216			
23	-.123	-.234	46	.123	.126			

21-11

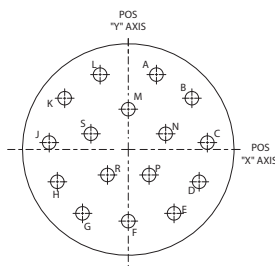
11 #12



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.121	.332	G	-.348	-.061
B	.306	.177	H	-.306	.177
C	.348	-.061	J	-.121	.332
D	.227	-.270	K	.000	.123
E	.000	-.353	L	.000	-.115
F	-.227	-.270			

21-16

16 #16



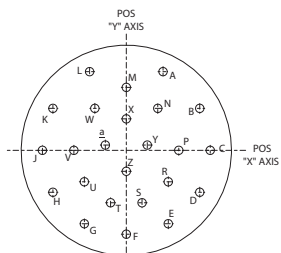
I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.118	.322	J	-.341	.036
B	.271	.211	K	-.271	.211
C	.341	.036	L	-.118	.322
D	.308	-.150	M	.000	.175
E	.182	-.290	N	.154	.062
F	.000	-.343	P	.094	-.122
G	-.182	-.290	R	-.094	-.122
H	-.308	-.150	S	-.154	.062

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

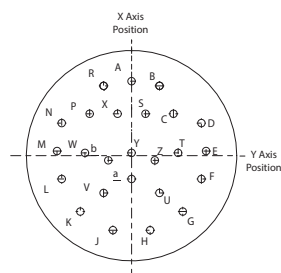
PCB FOOTPRINTS

21-24
24 #20



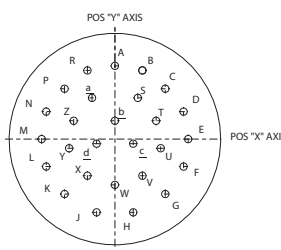
I.D. No	-Location		I.D. No.	Location	
	X	Y		X	Y
A	.175	.375	P	.250	.000
B	.350	.200	R	.200	-.150
C	.400	.000	S	.075	-.250
D	.350	.200	T	-.075	-.250
E	.200	.350	U	-.200	-.150
F	.000	.400	V	-.250	.000
G	.200	-.350	W	-.150	-.200
H	-.350	-.200	X	.000	.150
J	-.400	.000	Y	.100	.025
K	-.350	.200	Z	.000	-.100
L	-.175	.375	a	-.100	.025
M	.000	.300			
N	.150	.200			

21-25
25 #20



I.D. No	-Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.400	P	-.225	.225
B	.150	.375	R	-.150	.375
C	.225	.225	S	.075	-.225
D	.375	.175	T	.250	.075
E	.400	.025	U	.150	-.200
F	.375	-.125	V	-.150	-.200
G	.275	-.300	W	-.250	.075
H	.100	-.400	X	-.075	.225
J	-.100	-.400	Y	.000	.075
K	-.275	-.300	Z	.125	-.025
L	-.375	-.125	a	.000	-.125
M	-.400	.025	b	-.125	-.025
N	-.375	.175			

21-27
27 #20



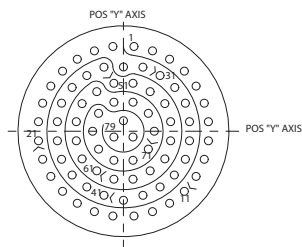
I.D. No	-Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.400	R	-.150	.375
B	.150	.375	S	.125	.225
C	.275	.275	T	.225	.100
D	.375	.150	U	.250	-.050
E	.400	.025	V	-.150	-.200
F	.375	-.150	W	-.000	-.250
G	.275	-.300	X	-.150	-.200
H	.100	-.400	Y	-.250	-.050
J	-.100	-.400	Z	-.225	-.100
K	-.275	-.300	a	-.125	.225
L	-.375	-.150	b	.000	.100
M	-.400	.000	c	.100	-.025
N	-.375	.150	d	-.100	-.025
P	-.150	.275			

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

21-35

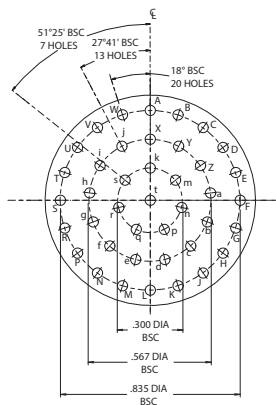
79 #22D



I.D. No.	-Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	.053	.426	28	-.053	.426	55	.237	.048
2	.146	.404	29	.000	.323	56	.237	-.048
3	.232	.362	30	.098	.322	57	.208	-.139
4	.306	.302	31	.184	.280	58	.134	-.199
5	.365	.227	32	.258	.220	59	.048	-.241
6	.406	.141	33	.311	.141	60	-.048	-.241
7	.427	.048	34	.332	.048	61	-.134	-.199
8	.427	-.048	35	.332	-.048	62	-.208	-.139
9	.406	-.141	36	.311	-.141	63	-.237	-.048
10	.365	-.227	37	.258	-.220	64	-.237	.048
11	.306	-.302	38	.184	-.280	65	-.208	.139
12	.232	-.362	39	.098	-.322	66	-.134	.199
13	.146	-.404	40	.000	-.347	67	-.048	.146
14	.053	-.426	41	-.098	-.322	68	.048	.146
15	-.053	-.426	42	-.184	-.280	69	.125	.090
16	-.146	-.404	43	-.258	-.220	70	.155	.000
17	-.232	-.362	44	-.311	-.141	71	.125	-.090
18	-.306	-.302	45	-.332	-.048	72	.048	-.146
19	-.365	-.227	46	-.332	.048	73	-.048	-.146
20	-.406	-.141	47	-.311	.141	74	-.125	-.090
21	-.427	-.048	48	-.258	.220	75	-.155	.000
22	-.427	.048	49	-.184	.280	76	-.125	.090
23	-.406	.141	50	-.098	.322	77	.000	.053
24	-.365	.227	51	-.048	.241	78	.048	-.029
25	-.306	.302	52	.048	.241	79	-.048	-.029
26	-.232	.362	53	.134	.199			
27	-.146	.404	54	.208	.139			

21-41

41 #20



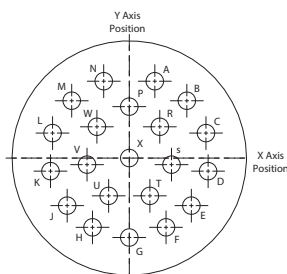
PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

23-21

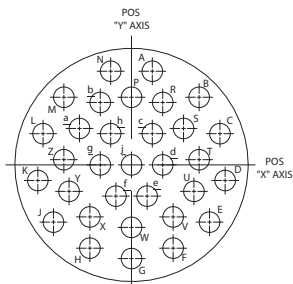
21 #16



I.D. No	Location		I.D. No.	Location	
	X	Y		X	Y
A	.128	.385	M	-.289	.285
B	.289	.285	N	-.128	.385
C	.386	.123	P	.000	.245
D	.400	-.065	R	.160	.146
E	.328	-.239	S	.214	-.035
F	.183	-.362	T	.094	-.194
G	.000	-.406	U	-.094	-.194
H	-.183	-.362	V	-.214	-.035
J	-.328	-.239	W	-.160	.146
K	-.400	-.065	X	.000	.000
L	-.386	.123			

23-32

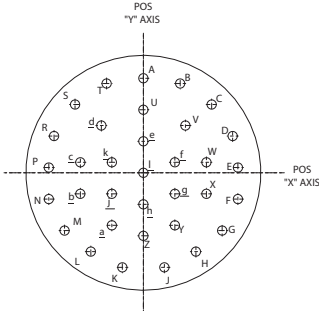
32 #20



I.D. No	Location		I.D. No.	Location	
	X	Y		X	Y
A	.100 (2.54)	.450 (11.43)	T	.325 (8.26)	.025 (0.64)
B	.325 (8.26)	.325 (8.26)	U	.300 (7.62)	-.125 (3.18)
C	.425 (10.80)	.150 (3.81)	V	.200 (5.08)	-.250 (6.35)
D	.450 (11.43)	-.075 (1.91)	W	.000 (0.00)	-.300 (7.62)
E	.375 (9.53)	-.275 (6.99)	X	-.200 (5.08)	-.250 (6.35)
F	.200 (5.08)	-.400 (10.16)	Y	-.300 (7.62)	-.125 (3.18)
G	.000 (0.00)	-.450 (11.43)	Z	-.325 (8.26)	.025 (0.64)
H	-.200 (5.08)	-.400 (10.16)	a	-.250 (6.35)	.175 (4.45)
J	-.375 (9.53)	-.275 (6.99)	b	-.150 (3.81)	.300 (7.62)
K	-.450 (11.43)	-.075 (1.91)	c	.100 (2.54)	.150 (3.81)
L	-.425 (10.80)	.150 (3.81)	d	.150 (3.81)	.000 (0.00)
M	-.325 (8.26)	.325 (8.26)	e	.075 (1.91)	-.150 (3.81)
N	-.100 (2.54)	.450 (11.43)	f	-.075 (1.91)	-.150 (3.81)
P	.000 (0.00)	.325 (8.26)	g	-.150 (3.81)	.000 (0.00)
R	.150 (3.81)	.300 (7.62)	h	-.100 (2.54)	.150 (3.81)
S	.250 (6.35)	.175 (4.45)	J	.000 (0.00)	.000 (0.00)

23-34

34 #20

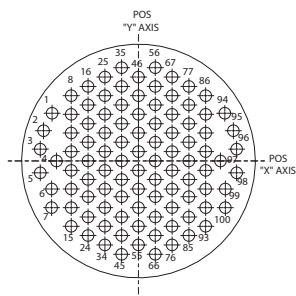


I.D. No	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.450	U	.000	.300
B	.175	.425	V	.200	.225
C	.325	.325	W	.300	.050
D	.425	.175	X	.300	-.100
E	.450	.025	Y	.150	-.250
F	.450	-.125	Z	.000	-.300
G	.375	-.275	a	-.150	-.25
H	.250	-.375	b	-.300	-.100
J	.100	-.450	c	-.300	.050
K	-.100	-.450	d	-.200	.225
L	-.250	-.375	e	.000	.150
M	-.375	-.275	f	.150	.050
N	-.450	-.125	g	.150	-.100
P	-.450	.025	h	.000	-.150
R	-.425	.175	j	-.150	-.100
S	-.325	.325	k	-.150	.050
T	-.175	.425	l	.000	.000

PCB Footprints: Standard

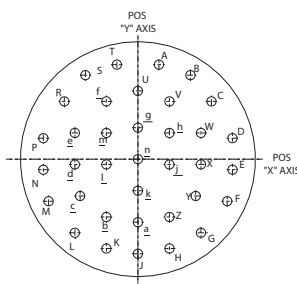
Mating face of pin insert shown (socket will be opposite)

23-35
100 #22D



I.D. No.	Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	-.428	.241	34	-.166	-.427	67	.166	.428
2	-.467	.154	35	-.083	.475	68	.166	.333
3	-.488	.061	36	-.083	.380	69	.166	.238
4	-.415	.000	37	-.083	.285	70	.166	.143
5	-.488	-.061	38	-.083	.190	71	.166	.048
6	-.428	-.142	39	-.083	.095	72	.166	-.047
7	-.428	-.237	40	-.083	.000	73	.166	-.142
8	-.332	.333	41	-.083	-.095	74	.166	-.237
9	-.332	.238	42	-.083	-.190	75	.166	-.332
10	-.332	.143	43	-.083	-.285	76	.166	-.427
11	-.332	.048	44	-.083	-.380	77	.249	.380
12	-.332	-.047	45	-.083	-.475	78	.249	.285
13	-.332	-.142	46	.000	.428	79	.249	.190
14	-.332	-.237	47	.000	.333	80	.249	.095
15	-.332	-.332	48	.000	.238	81	.249	.000
16	-.249	.380	49	.000	.143	82	.249	-.095
17	-.249	.285	50	.000	.048	83	.249	-.190
18	-.249	.190	51	.000	-.047	84	.249	-.285
19	-.249	.095	52	.000	-.142	85	.249	-.380
20	-.249	.000	53	.000	-.237	86	.332	.333
21	-.249	-.095	54	.000	-.332	87	.332	.238
22	-.249	-.190	55	.000	-.427	88	.332	.143
23	-.249	-.285	56	.083	.475	89	.332	.048
24	-.249	-.380	57	.083	.380	90	.332	-.047
25	-.166	.428	58	.083	.285	91	.332	-.142
26	-.166	.333	59	.083	.190	92	.332	-.237
27	-.166	.238	60	.083	.095	93	.332	-.332
28	-.166	.143	61	.083	.000	94	.428	.241
29	-.166	.048	62	.083	-.095	95	.467	.154
30	-.166	-.047	63	.083	-.190	96	.488	.061
31	-.166	-.142	64	.083	-.285	97	.415	.000
32	-.166	-.237	65	.083	-.380	98	.488	-.061
33	-.166	-.332	66	.083	-.475	99	.428	-.142
						100	.428	-.237

23-36
36 #20



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.100	.450	V	.150	.275
B	.250	.400	W	.300	.125
C	.350	.275	X	.300	-.025
D	.450	.100	Y	.275	-.175
E	.450	-.050	Z	.150	-.275
F	.425	-.200	a	.000	-.300
G	.300	-.350	b	-.150	-.275
H	.150	-.425	c	-.275	-.175
J	.000	-.450	d	-.300	-.025
K	-.150	-.425	e	-.300	.125
L	-.300	-.350	f	-.150	.275
M	-.425	-.200	g	.000	.150
N	-.450	-.050	h	.150	.125
P	-.450	.100	j	.150	-.025
R	-.350	.275	k	.000	-.150
S	-.250	.400	l	-.150	-.025
T	-.100	.450	m	-.150	.125
U	.000	.325	n	.000	.000

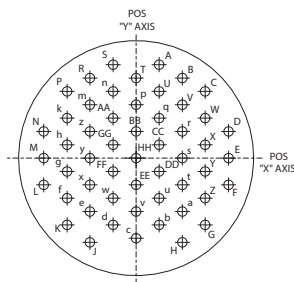
PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

23-53

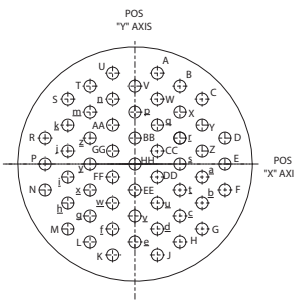
53 #20



I.D. No.	Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
A	.112	.455	V	.225	.260	r	.225	.130
B	.225	.390	W	.336	.195	s	.225	.000
C	.336	.325	X	.336	.065	t	.225	-.130
D	.450	.130	Y	.336	-.065	u	.112	-.195
E	.450	.000	Z	.336	-.195	v	.000	-.260
F	.450	-.130	a	.225	-.260	w	-.112	-.195
G	.336	-.325	b	.112	-.325	x	-.225	-.130
H	.225	-.410	c	.000	-.390	y	-.225	.000
J	-.225	-.410	d	-.112	-.325	z	-.225	.130
K	-.336	-.325	e	-.225	-.260	AA	-.112	.195
L	-.450	-.130	f	-.336	-.195	BB	.000	.130
M	-.450	.000	g	-.336	-.065	CC	.112	.065
N	-.450	.130	h	-.336	.065	DD	.112	-.065
P	-.336	.325	k	-.336	.195	EE	.000	-.130
R	-.225	.390	m	-.225	.260	FF	-.112	-.065
S	-.112	.455	n	-.112	.325	GG	-.112	.065
T	.000	.390	p	.000	.260	HH	.000	.000
U	.112	.325	q	.112	.195			

23-55

55 #20



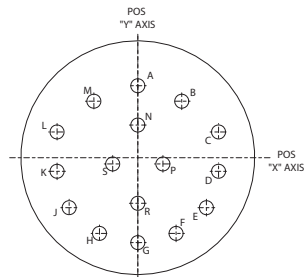
I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.112	.455	f	-.225	-.325
B	.225	.390	g	-.336	-.260
C	.336	.325	h	-.336	-.195
D	.450	.130	i	-.336	-.065
E	.450	.000	j	-.336	.065
F	.450	-.130	k	-.336	.195
G	.336	-.325	m	-.225	.260
H	.225	-.390	n	-.112	.325
J	.112	-.455	p	.000	.260
K	-.112	-.455	q	.112	.195
L	-.225	-.390	r	.225	.130
M	-.336	-.325	s	.225	.000
N	-.450	-.130	t	.225	-.130
P	-.450	.000	u	.112	-.195
R	-.450	.130	v	.000	-.260
S	-.336	.325	w	-.112	-.195
T	-.225	.390	x	-.225	-.130
U	-.112	.455	y	-.225	.000
V	.000	.390	z	-.225	.130
W	.112	.325	AA	-.112	.195
X	.225	.260	BB	.000	.130
Y	.336	.195	CC	.112	.065
Z	.336	.065	DD	.112	-.065
a	.336	-.065	EE	.000	-.130
b	.336	-.195	FF	-.112	-.065
c	.225	-.260	GG	-.112	.065
d	.112	-.325	HH	.000	.000
e	-.000	-.390			

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

23-97

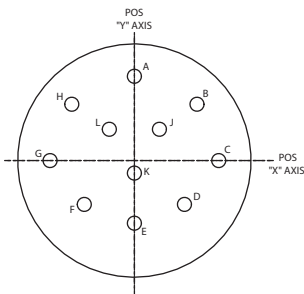
16 #16



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.344	J	-.328	-.239
B	.210	.270	K	-.400	-.065
C	.386	.123	L	-.386	.123
D	.400	-.065	M	-.210	.270
E	.328	-.239	N	.000	.156
F	.183	-.362	P	.120	-.030
G	.000	-.406	R	.000	-.218
H	-.183	-.362	S	-.120	-.030

23-99

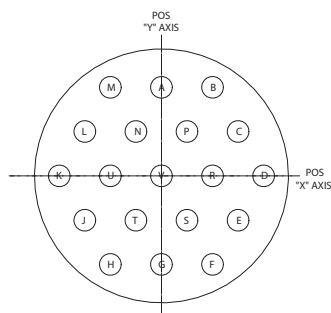
11 #16



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.404	G	-.404	.000
B	.300	.270	H	-.300	.270
C	.404	.000	J	.120	.150
D	.240	-.210	K	.000	-.060
E	.000	-.300	L	-.120	.150
F	-.240	-.210			

25-19

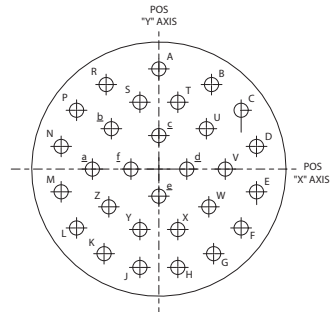
19 #12



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	0	.409	L	-.354	.205
B	.236	.409	M	-.236	.409
C	.354	.205	N	-.118	.205
D	.472	0	P	.118	.205
E	.354	-.205	R	.236	0
F	.236	-.409	S	.118	-.205
G	0	-.409	T	-.118	-.205
H	-.236	-.409	U	-.236	0
J	-.354	-.205	V	0	0
K	-.472	0			

25-29

29 #16



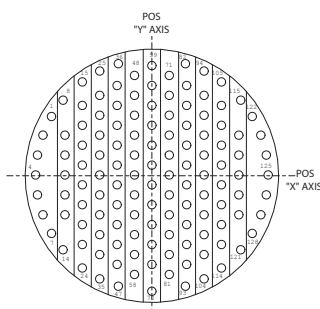
I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.000	.481	S	-.091	.321
B	.258	.406	T	.091	.321
C	.395	.277	U	.228	.194
D	.469	.109	V	.319	.000
E	.469	-.109	W	.240	-.181
F	.395	-.277	X	.091	-.290
G	.263	-.406	Y	-.091	-.290
H	.091	-.472	Z	-.240	-.181
J	-.091	-.472	a	-.319	.000
K	-.263	-.406	b	-.228	.194
L	-.395	-.277	c	.000	.161
M	-.469	-.109	d	.134	.000
N	-.469	.109	e	.000	-.130
P	-.395	.277	f	-.134	.000
R	-.258	.406			

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

25-35
128 #22D



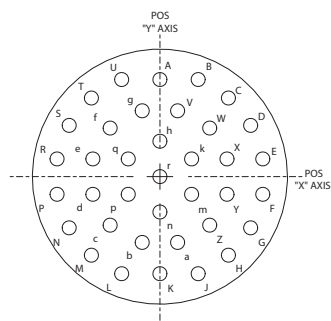
I.D. No.	Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
1	-.479	.279	44	-.166	-.237	87	.166	.047
2	-.520	.190	45	-.166	-.332	88	.166	-.047
3	-.546	.095	46	-.166	-.427	89	.166	-.142
4	-.555	.000	47	-.166	-.522	90	.166	-.237
5	-.546	-.095	48	-.083	.475	91	.166	-.332
6	-.520	-.190	49	-.083	.380	92	.166	-.427
7	-.479	-.279	50	-.083	.285	93	.166	-.522
8	-.424	.357	51	-.083	.190	94	.249	.496
9	-.415	.190	52	-.083	.095	95	.249	.380
10	-.415	.095	53	-.083	.000	96	.249	.285
11	-.415	.000	54	-.083	-.095	97	.249	.190
12	-.415	-.095	55	-.083	-.190	98	.249	-.095
13	-.415	-.190	56	-.083	-.285	99	.249	.000
14	-.424	-.357	57	-.083	-.380	100	.249	-.095
15	-.332	.444	58	-.083	-.475	101	.249	-.190
16	-.332	.332	59	.000	.522	102	.249	-.285
17	-.332	.237	60	.000	.427	103	.249	-.380
18	-.332	.142	61	.000	.332	104	.249	-.475
19	-.332	.047	62	.000	.237	105	.332	.444
20	-.332	-.047	63	.000	.142	106	.332	.332
21	-.332	-.142	64	.000	.047	107	.332	.237
22	-.332	-.237	65	.000	-.047	108	.332	.142
23	-.332	-.332	66	.000	-.142	109	.332	.047
24	-.332	-.427	67	.000	-.237	110	.332	-.047
25	-.249	.496	68	.000	-.332	111	.332	-.142
26	-.249	.380	69	.000	-.427	112	.332	-.237
27	-.249	.285	70	.000	-.555	113	.332	-.332
28	-.249	.190	71	.083	.475	114	.332	-.427
29	-.249	.095	72	.083	.380	115	.424	.357
30	-.249	.000	73	.083	.285	116	.415	.190
31	-.249	-.095	74	.083	.190	117	.415	.095
32	-.249	-.190	75	.083	.095	118	.415	.000
33	-.249	-.285	76	.083	.000	119	.415	-.095
34	-.249	-.380	77	.083	-.095	120	.415	-.190
35	-.249	-.475	78	.083	-.190	121	.424	-.357
36	-.160	.531	79	.083	-.285	122	.479	.279
37	-.166	.427	80	.083	-.380	123	.520	.190
38	-.166	.332	81	.083	-.475	124	.546	.095
39	-.166	.237	82	.160	.531	125	.555	.000
40	-.166	.142	83	.166	.427	126	.546	-.095
41	-.166	.047	84	.166	.332	127	.520	-.190
42	-.166	-.047	85	.166	.237	128	.479	-.279
43	-.166	-.142	86	.166	.142			

PCB Footprints: Standard

Mating face of pin insert shown (socket will be opposite)

25-37

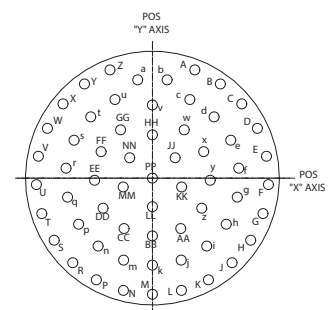
37 #16



I.D. No.	Location		I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y		X	Y
A	.000	.472	P	-.500	-.086	d	-.326	-.086
B	.186	.472	R	-.500	.086	e	-.326	.086
C	.333	.382	S	-.441	.249	f	-.242	.236
D	.441	.249	T	-.333	.382	g	-.086	.320
E	.500	.086	U	-.186	.472	h	.000	.172
F	.500	-.086	V	.086	.320	k	.154	.086
G	.441	-.249	W	.242	.236	m	.154	-.086
H	.333	-.382	X	.326	.086	n	.000	-.172
J	.186	-.472	Y	.326	-.086	p	-.154	-.086
K	.000	-.472	Z	.242	-.236	q	-.154	.086
L	-.186	-.472	a	.086	-.320	r	.000	.000
M	-.333	-.382	b	-.086	-.320			
N	-.441	-.249	c	-.242	-.236			

25-61

61 #20



I.D. No.	Location		I.D. No.	Location	
	X	Y		X	Y
A	.196	.500	i	.251	-.314
B	.314	.435	j	.133	-.379
C	.413	.343	k	.000	-.402
D	.485	.230	m	-.133	-.379
E	.527	.101	n	-.251	-.314
F	.536	-.030	p	-.341	-.213
G	.511	-.164	q	-.392	-.088
H	.454	-.287	r	-.399	.046
J	.368	-.391	s	-.362	.175
K	.259	-.470	t	-.285	.283
L	.134	-.519	u	-.173	.363
M	.000	-.537	v	.000	.338
N	-.134	-.519	w	.147	.223
P	-.259	-.470	x	.237	.122
R	-.368	-.391	y	.267	-.010
S	-.454	-.287	z	.228	-.139
T	-.511	-.164	AA	.131	-.233
U	-.536	-.030	BB	.000	-.267
V	-.527	.101	CC	-.131	-.233
W	-.485	.230	DD	-.228	-.139
X	-.413	.343	EE	-.267	-.010
Y	-.314	.435	FF	-.237	.122
Z	-.196	.500	GG	-.147	.223
a	-.068	.454	HH	.000	.200
b	.068	.454	JJ	.105	.094
c	.173	.363	KK	.135	-.041
d	.285	.283	LL	.000	-.132
e	.362	.175	MM	-.135	-.041
f	.399	.046	NN	-.105	.094
g	.392	-.088	PP	.000	.000
h	.341	-.213			

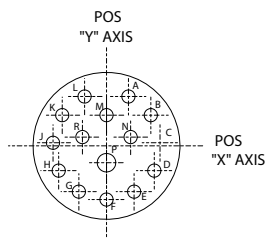
PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

15-15

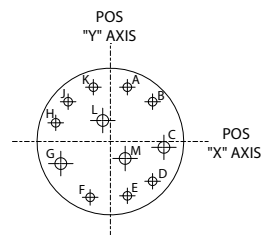
1x #16
14X #20



I.D. NO.	LOCATION		GAGE
	X	Y	
A	0.100	0.225	NO. 20
B	0.202	0.140	NO. 20
C	0.244	0.014	NO. 20
D	0.218	-0.113	NO. 20
E	0.126	-0.209	NO. 20
F	0.000	-0.245	NO. 20
G	-0.126	-0.209	NO. 20
H	-0.218	-0.113	NO. 20
J	-0.244	0.014	NO. 20
K	-0.202	0.140	NO. 20
L	-0.100	0.225	NO. 20
M	0.000	0.140	NO. 20
N	0.110	0.040	NO. 20
P	0.000	-0.077	NO. 16
R	-0.110	0.040	NO. 20

15-97

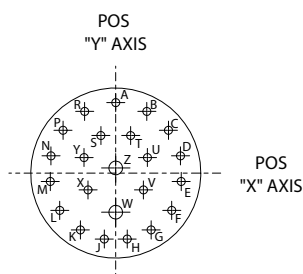
4X #16
8X #20



I.D. NO.	LOCATION		GAGE
	X	Y	
A	0.065	0.234	NO. 16
B	0.178	0.178	NO. 16
C	0.230	-0.023	NO. 20
D	0.178	-0.178	NO. 16
E	0.065	-0.234	NO. 16
F	-0.089	-0.235	NO. 16
G	-0.207	-0.095	NO. 20
H	-0.234	0.065	NO. 16
J	-0.178	0.178	NO. 16
K	-0.065	0.234	NO. 16
L	-0.047	0.081	NO. 20
M	0.047	-0.081	NO. 20

17-99

2X #16
37X #20



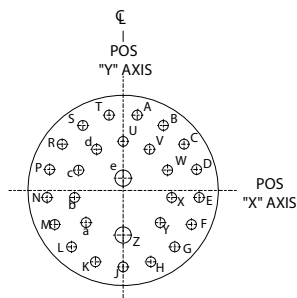
I.D. NO.	LOCATION		GAGE	I.D. NO. X	LOCATION		GAGE
	X	Y			X	Y	
A	0.000	0.321	NO. 20	N	-0.305	0.099	NO. 20
B	0.131	0.293	NO. 20	P	-0.239	0.214	NO. 20
C	0.239	0.214	NO. 20	R	-0.131	0.293	NO. 20
D	0.305	0.099	NO. 20	S	-0.070	0.177	NO. 20
E	0.319	-0.034	NO. 20	T	0.070	0.177	NO. 20
F	0.278	-0.161	NO. 20	U	0.175	0.094	NO. 20
G	0.189	-0.260	NO. 20	V	0.150	-0.075	NO. 20
H	0.067	-0.314	NO. 20	W	0.000	-0.161	NO. 16
J	-0.067	-0.314	NO. 20	X	-0.150	-0.075	NO. 20
K	-0.189	-0.260	NO. 20	Y	-0.175	0.094	NO. 20
L	-0.278	-0.161	NO. 20	Z	0.000	0.025	NO. 16
M	-0.319	-0.034	NO. 20				

PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

19-28

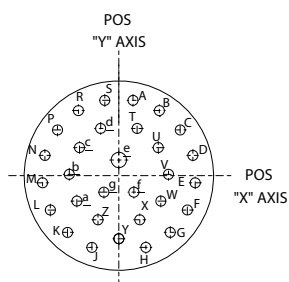
2X #16
26X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.066	0.353	NO. 20	R	-0.286	0.217	NO. 20
B	0.189	0.305	NO. 20	S	-0.189	0.305	NO. 20
C	0.286	0.217	NO. 20	T	-0.066	0.353	NO. 20
D	0.345	0.098	NO. 20	U	0	0.230	NO. 20
E	0.357	-0.033	NO. 20	V	0.124	0.193	NO. 20
F	0.321	-0.160	NO. 20	W	0.209	0.095	NO. 20
G	0.242	-0.265	NO. 20	X	0.228	-0.033	NO. 20
H	0.130	-0.335	NO. 20	Y	0.174	-0.151	NO. 20
J	0	-0.359	NO. 20	Z	0	-0.191	NO. 16
K	-0.130	-0.335	NO. 20	a	-0.174	-0.151	NO. 20
L	-0.242	-0.265	NO. 20	b	-0.228	-0.033	NO. 20
M	-0.321	-0.160	NO. 20	c	-0.209	0.095	NO. 20
N	-0.357	-0.033	NO. 20	d	-0.124	0.193	NO. 20
P	-0.345	0.098	NO. 20	e	0	0.062	NO. 16

19-30

1X #16
29X #20



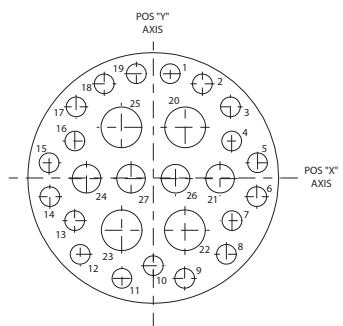
I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.065	0.346	NO. 20	S	-0.065	0.346	NO. 20
B	0.186	0.299	NO. 20	T	0.084	0.217	NO. 20
C	0.282	0.210	NO. 20	U	0.181	0.129	NO. 20
D	0.340	0.093	NO. 20	V	0.228	0.008	NO. 20
E	0.351	-0.033	NO. 20	W	0.193	-0.117	NO. 20
F	0.315	-0.158	NO. 20	X	0.096	-0.203	NO. 20
G	0.236	-0.261	NO. 20	Y	0.000	-0.290	NO. 20
H	0.124	-0.330	NO. 20	Z	-0.096	-0.203	NO. 20
J	-0.124	-0.330	NO. 20	a	-0.193	-0.117	NO. 20
K	-0.236	-0.261	NO. 20	b	-0.228	0.008	NO. 20
L	-0.315	-0.158	NO. 20	c	-0.181	0.129	NO. 20
M	-0.351	-0.033	NO. 20	d	-0.084	0.217	NO. 20
N	-0.340	0.093	NO. 20	e	0.000	0.072	NO. 16
P	-0.282	0.210	NO. 20	f	0.069	-0.076	NO. 20
R	-0.186	0.299	NO. 20	g	-0.069	-0.076	NO. 20

PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

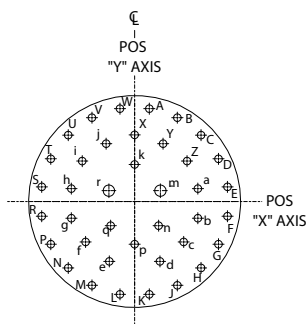
PCB FOOTPRINTS

21-29
4X #12
4X #16
19X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
1	+0.067	+0.412	NO. 20	15	-0.412	+0.060	NO. 20
2	+0.194	+0.372	NO. 20	16	-0.310	+0.146	NO. 20
3	+0.305	+0.281	NO. 20	17	-0.305	+0.281	NO. 20
4	+0.310	+0.146	NO. 20	18	-0.194	+0.372	NO. 20
5	+0.412	+0.060	NO. 20	19	-0.067	+0.412	NO. 20
6	+0.409	-0.074	NO. 20	20	+0.126	+0.200	NO. 12
7	+0.311	-0.169	NO. 20	21	+0.264	-0.003	NO. 16
8	+0.289	-0.302	NO. 20	22	+0.125	-0.207	NO. 12
9	+0.124	-0.397	NO. 20	23	-0.125	-0.207	NO. 12
10	0.000	-0.347	NO. 20	24	-0.264	-0.003	NO. 16
11	-0.124	-0.397	NO. 20	25	-0.126	+0.200	NO. 12
12	-0.289	-0.302	NO. 20	26	+0.088	-0.003	NO. 16
13	-0.311	-0.169	NO. 20	27	-0.088	-0.003	NO. 16
14	-0.409	-0.074	NO. 20				

21-39
2X #16
37X #20



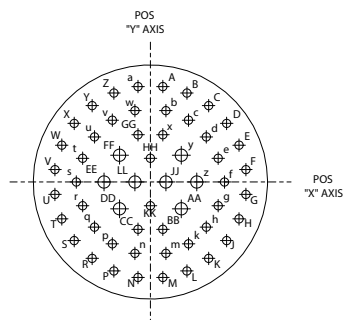
I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.065	0.411	NO. 20	a	0.280	0.057	NO. 20
B	0.189	0.371	NO. 20	b	0.280	-0.074	NO. 20
C	0.294	0.294	NO. 20	c	0.217	-0.189	NO. 20
D	0.371	0.189	NO. 20	d	0.112	-0.265	NO. 20
E	0.411	0.065	NO. 20	e	-0.112	-0.265	NO. 20
F	0.411	-0.065	NO. 20	f	-0.217	-0.189	NO. 20
G	0.371	-0.189	NO. 20	g	-0.280	-0.074	NO. 20
H	0.294	-0.294	NO. 20	h	-0.280	0.057	NO. 20
J	0.189	-0.371	NO. 20	i	-0.232	0.179	NO. 20
K	0.065	-0.411	NO. 20	j	-0.126	0.256	NO. 20
L	-0.065	-0.411	NO. 20	k	0	0.164	NO. 20
M	-0.189	-0.371	NO. 20	m	0.114	0.048	NO. 16
N	-0.294	-0.294	NO. 20	n	0.106	-0.107	NO. 20
P	-0.371	-0.189	NO. 20	p	0	-0.189	NO. 20
R	-0.411	-0.065	NO. 20	q	-0.106	-0.107	NO. 20
S	-0.411	0.065	NO. 20	r	-0.114	0.048	NO. 16
T	-0.371	0.189	NO. 20				
U	-0.294	0.294	NO. 20				
V	-0.189	0.371	NO. 20				
W	-0.065	0.411	NO. 20				
X	0	0.295	NO. 20				
Y	0.126	0.256	NO. 20				
Z	0.232	0.179	NO. 20				

PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

25-4

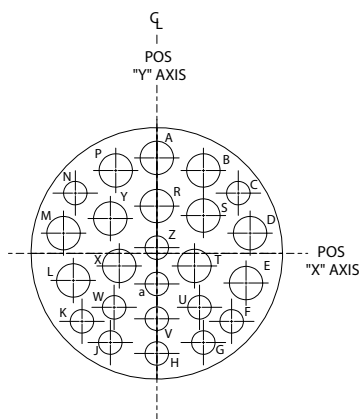
8X #16
48X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.069	0.531	NO. 20	f	0.412	0.000	NO. 20
B	0.203	0.495	NO. 20	g	0.377	-0.132	NO. 20
C	0.324	0.425	NO. 20	h	0.311	-0.251	NO. 20
D	0.424	0.326	NO. 20	k	0.212	-0.344	NO. 20
E	0.493	0.205	NO. 20	m	0.086	-0.397	NO. 20
F	0.531	0.069	NO. 20	n	-0.086	-0.397	NO. 20
G	0.531	-0.069	NO. 20	p	-0.212	-0.344	NO. 20
H	0.493	-0.205	NO. 20	q	-0.311	-0.251	NO. 20
J	0.424	-0.326	NO. 20	r	-0.377	-0.132	NO. 20
K	0.324	-0.425	NO. 20	s	-0.412	0.000	NO. 20
L	0.203	-0.495	NO. 20	t	-0.377	0.132	NO. 20
M	0.069	-0.531	NO. 20	u	-0.311	0.251	NO. 20
N	-0.069	-0.531	NO. 20	v	-0.212	0.344	NO. 20
P	-0.203	-0.495	NO. 20	w	-0.086	0.397	NO. 20
R	-0.324	-0.425	NO. 20	x	0.069	0.263	NO. 20
S	-0.424	-0.326	NO. 20	y	0.172	0.149	NO. 20
T	-0.493	-0.205	NO. 20	z	0.258	0.000	NO. 20
U	-0.531	-0.069	NO. 20	AA	0.172	-0.149	NO. 16
V	-0.531	0.069	NO. 20	BB	0.069	-0.263	NO. 16
W	-0.493	0.205	NO. 20	CC	-0.069	-0.263	NO. 16
X	-0.424	0.326	NO. 20	DD	-0.172	-0.149	NO. 16
Y	-0.324	0.425	NO. 20	EE	-0.258	0.000	NO. 16
Z	-0.203	0.495	NO. 20	FF	-0.172	0.149	NO. 16
a	-0.069	0.531	NO. 20	GG	-0.069	0.263	NO. 16
b	0.086	0.397	NO. 20	HH	0.000	0.132	NO. 16
c	0.212	0.344	NO. 20	JJ	0.086	0.000	NO. 16
d	0.311	0.251	NO. 20	KK	0.000	-0.132	NO. 16
e	0.377	0.132	NO. 20	LL	-0.086	0.000	NO. 16

25-24

12X #16
12X #12



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	+0.000	+0.472	NO. 12	N	-0.403	+0.298	NO. 16
B	+0.230	+0.410	NO. 12	P	-0.230	+0.410	NO. 12
C	+0.403	+0.298	NO. 16	R	+0.000	+0.234	NO. 12
D	+0.461	+0.100	NO. 12	S	+0.230	+0.172	NO. 12
E	+0.413	-0.134	NO. 12	T	+0.186	-0.062	NO. 12
F	+0.370	-0.336	NO. 16	U	+0.211	-0.267	NO. 16
G	+0.230	-0.441	NO. 16	V	+0.000	-0.323	NO. 16
H	+0.000	-0.495	NO. 16	W	-0.211	-0.267	NO. 16
J	-0.230	-0.441	NO. 16	X	-0.186	-0.062	NO. 12
K	-0.370	-0.336	NO. 16	Y	-0.230	+0.172	NO. 12
L	-0.413	-0.134	NO. 16	Z	+0.000	+0.028	NO. 16
M	-0.461	+0.100	NO. 12	a	+0.000	-0.151	NO. 16

PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

25-43

20X #16

23X #20

