



# SuperFly<sup>®</sup> Connectors



## Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.  
Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010
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Insert Arrangement	PCB Footprint	Contact Location			
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**B7N**

Tag	X Loc	Y Loc	Size
1	-.0250	.0433	Nano
2	.0250	.0433	Nano
3	-.0500	.0000	Nano
4	.0000	.0000	Nano
5	.0500	.0000	Nano
6	-.0250	-.0433	Nano
7	.0250	-.0433	Nano

**C10N**

Tag	X Loc	Y Loc	Size
1	-.0250	.0683	Nano
2	.0250	.0683	Nano
3	-.0500	.0250	Nano
4	.0000	.0250	Nano
5	.0500	.0250	Nano
6	-.0500	-.0250	Nano
7	.0000	-.0250	Nano
8	.0500	-.0250	Nano
9	-.0250	-.0683	Nano
10	.0250	-.0683	Nano

**C2M2N**

Tag	X Loc	Y Loc	Size
1	-.0250	.0550	Nano
2	.0250	.0550	Nano
3	-.0325	-.0280	Micro
4	.0325	-.0280	Micro

**D3M**

Tag	X Loc	Y Loc	Size
1	.0000	.0373	Micro
2	-.0325	-.0190	Micro
3	.0325	-.0190	Micro

**D2W2N**

Tag	X Loc	Y Loc	Size
1	-.0375	.0222	#23
2	.0375	.0222	#23
3	-.0250	-.0544	Nano
4	.0250	-.0544	Nano





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PC Tail Wire Diameter By Contact Size

#23 contact uses #24 wire Ø.020

Micro contact uses #26 wire Ø.016

Nano contact uses #30 wire Ø.010

A

Insert Arrangement	PCB Footprint	Contact Location									
<b>E3W</b>		Tag	X Loc	Y Loc	Size						
		1	.0000	.0420	#23						
		2	-.0375	-.0230	#23						
<b>E4M</b>		Tag	X Loc	Y Loc	Size						
		1	-.0325	.0325	Micro						
		2	.0325	.0325	Micro						
		3	-.0325	-.0325	Micro						
<b>E19N</b>		Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size		
		1	-.0500	.0866	Nano	11	.0500	.0000	Nano		
		2	.0000	.0866	Nano	12	.1000	.0000	Nano		
		3	.0500	.0866	Nano	13	-.0750	-.0433	Nano		
		4	-.0750	.0433	Nano	14	-.0250	-.0433	Nano		
		5	-.0250	.0433	Nano	15	.0250	-.0433	Nano		
		6	.0250	.0433	Nano	16	.0750	-.0433	Nano		
		7	.0750	.0433	Nano	17	-.0500	-.0866	Nano		
		8	-.1000	.0000	Nano	18	.0000	-.0866	Nano		
		9	-.0500	.0000	Nano	19	.0500	-.0866	Nano		
		10	.0000	.0000	Nano						
		<b>E4M4N</b>		Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
				1	-.0650	.0000	Micro	5	.0000	.0156	Nano
				2	-.0325	.0719	Micro	6	.0000	-.0344	Nano
				3	.0325	.0719	Micro	7	-.0250	-.077	Nano
				4	.0650	.0000	Micro	8	.0250	-.077	Nano



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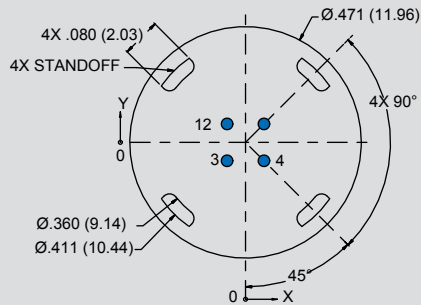
## Vertical PCB Footprints

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PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010
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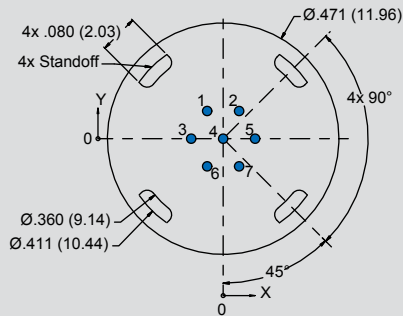
Insert Arrangement	PCB Footprint	Contact Location
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### F4W



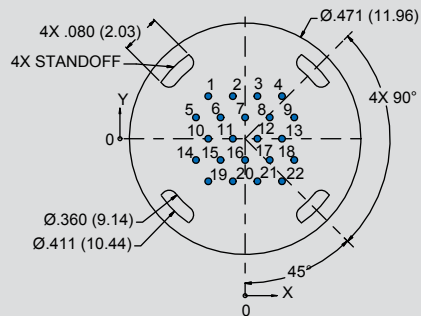
Tag	X Loc	Y Loc	Size
1	-.0375	.0375	#23
2	.0375	.0375	#23
3	-.0375	-.0375	#23
4	.0375	-.0375	#23

### F7M



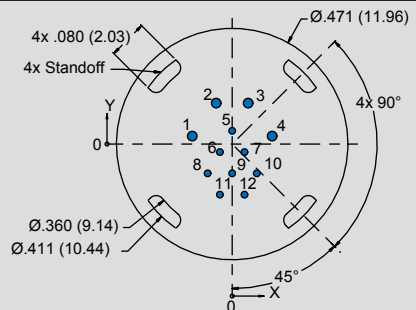
Tag	X Loc	Y Loc	Size
1	-.0325	.0563	Micro
2	.0325	.0563	Micro
3	-.0650	.0000	Micro
4	.0000	.0000	Micro
5	.0650	.0000	Micro
6	-.0325	-.0563	Micro
7	.0325	-.0563	Micro

### F22N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0750	.0866	Nano	12	.0250	.0000	Nano
2	-.0250	.0866	Nano	13	.0750	.0000	Nano
3	.0250	.0866	Nano	14	-.1000	-.0433	Nano
4	.0750	.0866	Nano	15	-.0500	-.0433	Nano
5	-.1000	.0433	Nano	16	.0000	-.0433	Nano
6	-.0500	.0433	Nano	17	.0500	-.0433	Nano
7	.0000	.0433	Nano	18	.1000	-.0433	Nano
8	.0500	.0433	Nano	19	-.0750	-.0866	Nano
9	.1000	.0433	Nano	20	-.0250	-.0866	Nano
10	-.0750	.0000	Nano	21	.0250	-.0866	Nano
11	-.0250	.0000	Nano	22	.0750	-.0866	Nano

### F4M8N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0813	.0162	Micro	5	.0000	.0270	Nano
2	-.0325	.0833	Micro	6	-.0250	-.0163	Nano
3	.0325	.0833	Micro	7	.0250	-.0163	Nano
4	.0813	.0162	Micro	8	-.0500	-.0596	Nano
				9	.0000	-.0596	Nano
				10	.0500	-.0596	Nano
				11	-.0250	-.1029	Nano
				12	.0250	-.1029	Nano

A



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## Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.  
Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size

#23 contact uses #24 wire Ø.020

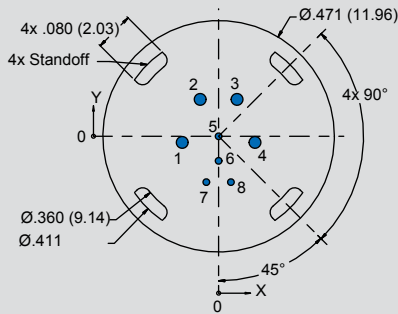
Micro contact uses #26 wire Ø.016

Nano contact uses #30 wire Ø.010

**A**

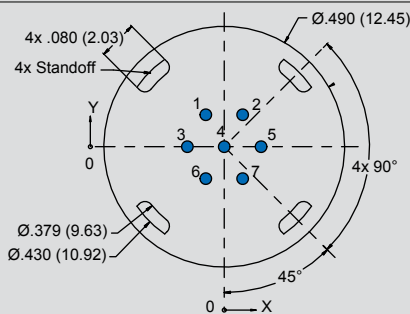
Insert Arrangement	PCB Footprint	Contact Location			
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### F4W4N



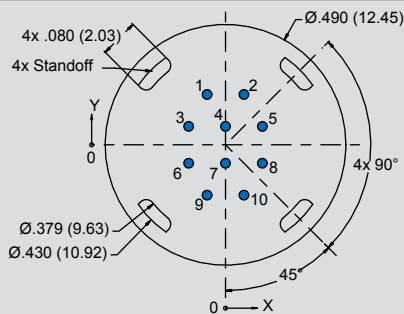
Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0740	-.0125	#23	5	.0000	.0000	Nano
2	-.0375	.0750	#23	6	.0000	-.0500	Nano
3	.0375	.0750	#23	7	-.0250	-.0933	Nano
4	.0740	-.0125	#23	8	.0250	-.0933	Nano

### G7W



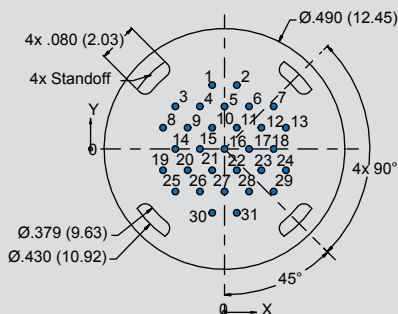
Tag	X Loc	Y Loc	Size
1	-.0375	.0650	#23
2	.0375	.0650	#23
3	-.0750	.0000	#23
4	.0000	.0000	#23
5	.0750	.0000	#23
6	-.0375	-.0650	#23
7	.0375	-.0650	#23

### G10M



Tag	X Loc	Y Loc	Size
1	-.0375	.1025	Micro
2	.0375	.1025	Micro
3	-.0750	.0375	Micro
4	.0000	.0375	Micro
5	.0750	.0375	Micro
6	-.0750	-.0375	Micro
7	.0000	-.0375	Micro
8	.0750	-.0375	Micro
9	-.0375	-.1025	Micro
10	.0375	-.1025	Micro

### G31N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0250	.1299	Nano	17	.0500	.0000	Nano
2	.0250	.1299	Nano	18	.1000	.0000	Nano
3	-.1000	.0866	Nano	19	-.1250	-.0433	Nano
4	-.0500	.0866	Nano	20	-.0750	-.0433	Nano
5	.0000	.0866	Nano	21	-.0250	-.0433	Nano
6	.0500	.0866	Nano	22	.0250	-.0433	Nano
7	.1000	.0866	Nano	23	.0750	-.0433	Nano
8	-.1250	.0433	Nano	24	.1250	-.0433	Nano
9	-.0750	.0433	Nano	25	-.1000	-.0866	Nano
10	-.0250	.0433	Nano	26	-.0500	-.0866	Nano
11	.0250	.0433	Nano	27	.0000	-.0866	Nano
12	.0750	.0433	Nano	28	.0500	-.0866	Nano
13	.1250	.0433	Nano	29	.1000	-.0866	Nano
14	-.1000	.0000	Nano	30	-.0250	-.1299	Nano
15	-.0500	.0000	Nano	31	.0250	-.1299	Nano
16	.0000	.0000	Nano				



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Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010
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Insert Arrangement	PCB Footprint	Contact Location									
<b>G6M10N</b>		Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size		
		1	-.0900	-.0214	Micro	7	-.0250	.0350	Nano		
		2	-.0872	.0583	Micro	8	-.0250	-.0350	Nano		
		3	-.0325	.1037	Micro	9	-.0250	-.0150	Nano		
		4	.0325	.1037	Micro	10	.0250	-.0150	Nano		
		5	.0872	.0583	Micro	11	-.0250	-.0650	Nano		
		6	.0900	-.0214	Micro	12	.0250	-.0650	Nano		
						13	-.0750	-.1150	Nano		
						14	-.0250	-.1150	Nano		
						15	.0250	-.1150	Nano		
						16	.0750	-.1150	Nano		
		<b>G6M12N</b>		Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
				1	-.1035	-.0227	Micro	7	-.0500	-.0716	Nano
				2	-.1006	.0598	Micro	8	-.0500	.0150	Nano
				3	-.0413	.1171	Micro	9	-.0250	.1149	Nano
				4	.0413	.1171	Micro	10	-.0250	-.0283	Nano
				5	.1006	.0598	Micro	11	-.0250	.0583	Nano
6	.1035			-.0227	Micro	12	.0000	-.0716	Nano		
						13	.0000	.0150	Nano		
						14	.0250	-.1149	Nano		
						15	.0250	-.0283	Nano		
						16	.0250	.0583	Nano		
						17	.0500	-.0716	Nano		
						18	.0500	.0150	Nano		
<b>H10W</b>				Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
				1	-.0375	.1025	#23	6	-.0750	-.0375	#23
				2	.0375	.1025	#23	7	.0000	-.0375	#23
				3	-.0750	.0375	#23	8	.0750	-.0375	#23
				4	.0000	.0375	#23	9	-.0375	-.1025	#23
		5	.0750	.0375	#23	10	.0375	-.1025	#23		

**A**



# SuperFly® Connectors



## Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.  
Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size

#23 contact uses #24 wire Ø.020

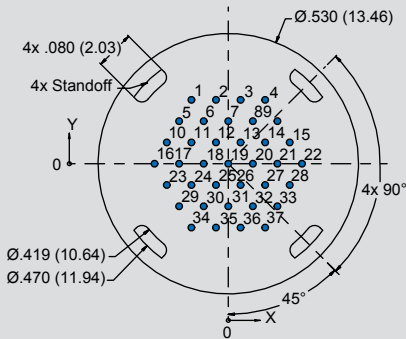
Micro contact uses #26 wire Ø.016

Nano contact uses #30 wire Ø.010

A

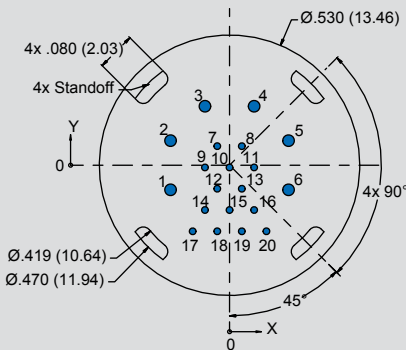
Insert Arrangement	PCB Footprint	Contact Location							
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### H37N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0750	.1299	Nano	20	.0500	.0000	Nano
2	-.0250	.1299	Nano	21	.1000	.0000	Nano
3	.0250	.1299	Nano	22	.1500	.0000	Nano
4	.0750	.1299	Nano	23	-.1250	-.0433	Nano
5	-.1000	.0866	Nano	24	-.0750	-.0433	Nano
6	-.0500	.0866	Nano	25	-.0250	-.0433	Nano
7	.0000	.0866	Nano	26	.0250	-.0433	Nano
8	.0500	.0866	Nano	27	.0750	-.0433	Nano
9	.1000	.0866	Nano	28	.1250	-.0433	Nano
10	-.1250	.0433	Nano	29	-.1000	-.0866	Nano
11	-.0750	.0433	Nano	30	-.0500	-.0866	Nano
12	-.0250	.0433	Nano	31	.0000	-.0866	Nano
13	.0250	.0433	Nano	32	.0500	-.0866	Nano
14	.0750	.0433	Nano	33	.1000	-.0866	Nano
15	.1250	.0433	Nano	34	-.0750	-.1299	Nano
16	-.1500	.0000	Nano	35	-.0250	-.1299	Nano
17	-.1000	.0000	Nano	36	.0250	-.1299	Nano
18	-.0500	.0000	Nano	37	.0750	-.1299	Nano
19	.0000	.0000	Nano				

### H6W14N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.1200	-.0500	#23	7	-.0250	.0388	Nano
2	-.1200	.0500	#23	8	.0250	.0388	Nano
3	-.0500	.1200	#23	9	.0500	-.0045	Nano
4	.0500	.1200	#23	10	.0000	-.0045	Nano
5	.1200	.0500	#23	11	.0500	-.0045	Nano
6	.1200	-.0500	#23	12	-.0250	-.0478	Nano
				13	.0250	-.0478	Nano
				14	-.0500	-.0911	Nano
				15	.0000	-.0911	Nano
				16	.0500	-.0911	Nano
				17	-.0750	-.1344	Nano
				18	-.0250	-.1344	Nano
				19	.0250	-.1344	Nano
				20	.0750	-.1344	Nano



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Insert Arrangement	PCB Footprint	Contact Location							
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**J44N**

Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.1000	.1299	Nano	23	.0250	.0000	Nano
2	-.0500	.1299	Nano	24	.0750	.0000	Nano
3	.0000	.1299	Nano	25	.1250	.0000	Nano
4	.0500	.1299	Nano	26	.1750	.0000	Nano
5	.1000	.1299	Nano	27	-.1500	-.0433	Nano
6	-.1250	.0866	Nano	28	-.1000	-.0433	Nano
7	-.0750	.0866	Nano	29	-.0500	-.0433	Nano
8	-.0250	.0866	Nano	30	.0000	-.0433	Nano
9	.0250	.0866	Nano	31	.0500	-.0433	Nano
10	.0750	.0866	Nano	32	.1000	-.0433	Nano
11	.1250	.0866	Nano	33	.1500	-.0433	Nano
12	-.1500	.0433	Nano	34	-.1250	-.0866	Nano
13	-.1000	.0433	Nano	35	-.0750	-.0866	Nano
14	-.0500	.0433	Nano	36	-.0250	-.0866	Nano
15	.0000	.0433	Nano	37	.0250	-.0866	Nano
16	.0500	.0433	Nano	38	.0750	-.0866	Nano
17	.1000	.0433	Nano	39	.1250	-.0866	Nano
18	.1500	.0433	Nano	40	-.1000	-.1299	Nano
19	-.1750	.0000	Nano	41	-.0500	-.1299	Nano
20	-.1250	.0000	Nano	42	.0000	-.1299	Nano
21	-.0750	.0000	Nano	43	.0500	-.1299	Nano
22	-.0250	.0000	Nano	44	.1000	-.1299	Nano

**J7W19N**

Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.1299	-.0850	#23	8	-.0250	.0613	Nano
2	-.1477	.0160	#23	9	.0250	.0613	Nano
3	-.0964	.1049	#23	10	-.0500	.0180	Nano
4	.0000	.1400	#23	11	.0000	.0180	Nano
5	.0964	.1049	#23	12	.0500	.0180	Nano
6	.1477	.0160	#23	13	-.0750	-.0253	Nano
7	.1299	-.0850	#23	14	-.0250	-.0253	Nano
				15	.0250	-.0253	Nano
				16	.0750	-.0253	Nano
				17	-.0500	-.0686	Nano
				18	.0000	-.0686	Nano
				19	.0500	-.0686	Nano
				20	-.0250	-.1119	Nano
				21	.0250	-.1119	Nano
				22	-.1000	-.1552	Nano
				23	-.0500	-.1552	Nano
				24	.0000	-.1552	Nano
				25	.0500	-.1552	Nano
				26	.1000	-.1552	Nano

A



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PC Tail Wire Diameter By Contact Size

#23 contact uses #24 wire Ø.020

Micro contact uses #26 wire Ø.016

Nano contact uses #30 wire Ø.010

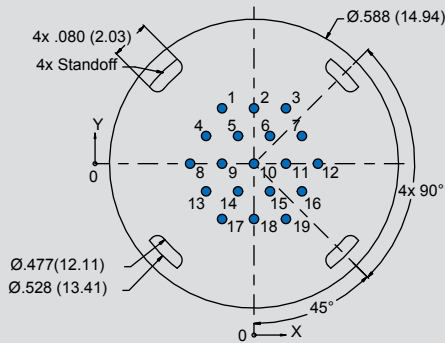
A

**Insert Arrangement**

**PCB Footprint**

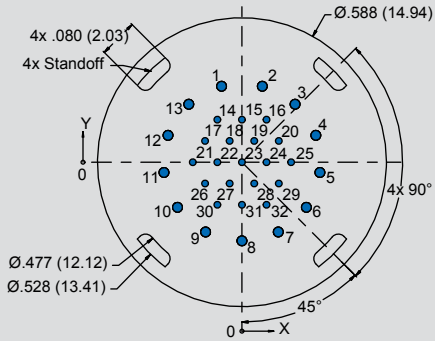
**Contact Location**

**K19M**



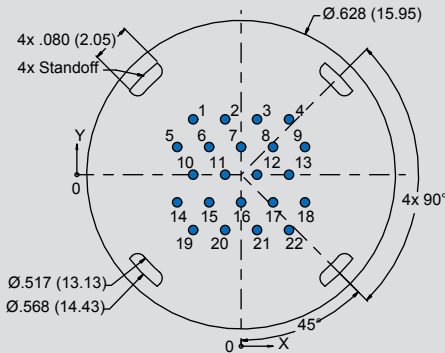
Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0650	.1126	Micro	11	.0650	.0000	Micro
2	.0000	.1126	Micro	12	.1300	.0000	Micro
3	.0650	.1126	Micro	13	-.0975	-.0563	Micro
4	-.0975	.0563	Micro	14	-.0325	-.0563	Micro
5	-.0325	.0563	Micro	15	.0325	-.0563	Micro
6	.0325	.0563	Micro	16	.0975	-.0563	Micro
7	.0975	.0563	Micro	17	-.0650	-.1126	Micro
8	-.1300	.0000	Micro	18	.0000	-.1126	Micro
9	-.0650	.0000	Micro	19	.0650	-.1126	Micro
10	.0000	.0000	Micro				

**K13M19N**



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0415	.1546	Micro	14	-.0500	.0866	Nano
2	.0415	.1546	Micro	15	.0000	.0866	Nano
3	.1081	.1180	Micro	16	.0500	.0866	Nano
4	.1504	.0548	Micro	17	-.0750	.0433	Nano
5	.1587	-.0209	Micro	18	-.0250	.0433	Nano
6	.1311	-.0918	Micro	19	.0250	.0433	Nano
7	.0739	-.1420	Micro	20	.0750	.0433	Nano
8	.0000	-.1600	Micro	21	-.1000	.0000	Nano
9	-.0739	-.1420	Micro	22	-.0500	.0000	Nano
10	-.1311	-.0918	Micro	23	.0000	.0000	Nano
11	-.1587	-.0209	Micro	24	.0500	.0000	Nano
12	-.1504	.0548	Micro	25	.1000	.0000	Nano
13	-.1081	.1180	Micro	26	-.0750	-.0433	Nano
				27	-.0250	-.0433	Nano
				28	.0250	-.0433	Nano
				29	.0750	-.0433	Nano
				30	-.0500	-.0866	Nano
				31	.0000	-.0866	Nano
				32	.0500	-.0866	Nano

**L22M**



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0975	.1126	Micro	12	.0325	.0000	Micro
2	-.0325	.1126	Micro	13	.0975	.0000	Micro
3	.0325	.1126	Micro	14	-.1300	-.0563	Micro
4	.0975	.1126	Micro	15	-.0650	-.0563	Micro
5	-.1300	.0563	Micro	16	.0000	-.0563	Micro
6	-.0650	.0563	Micro	17	.0650	-.0563	Micro
7	.0000	.0563	Micro	18	.1300	-.0563	Micro
8	.0650	.0563	Micro	19	-.0975	-.1126	Micro
9	.1300	.0563	Micro	20	-.0325	-.1126	Micro
10	-.0975	.0000	Micro	21	.0325	-.1126	Micro
11	-.0325	.0000	Micro	22	.0975	-.1126	Micro