

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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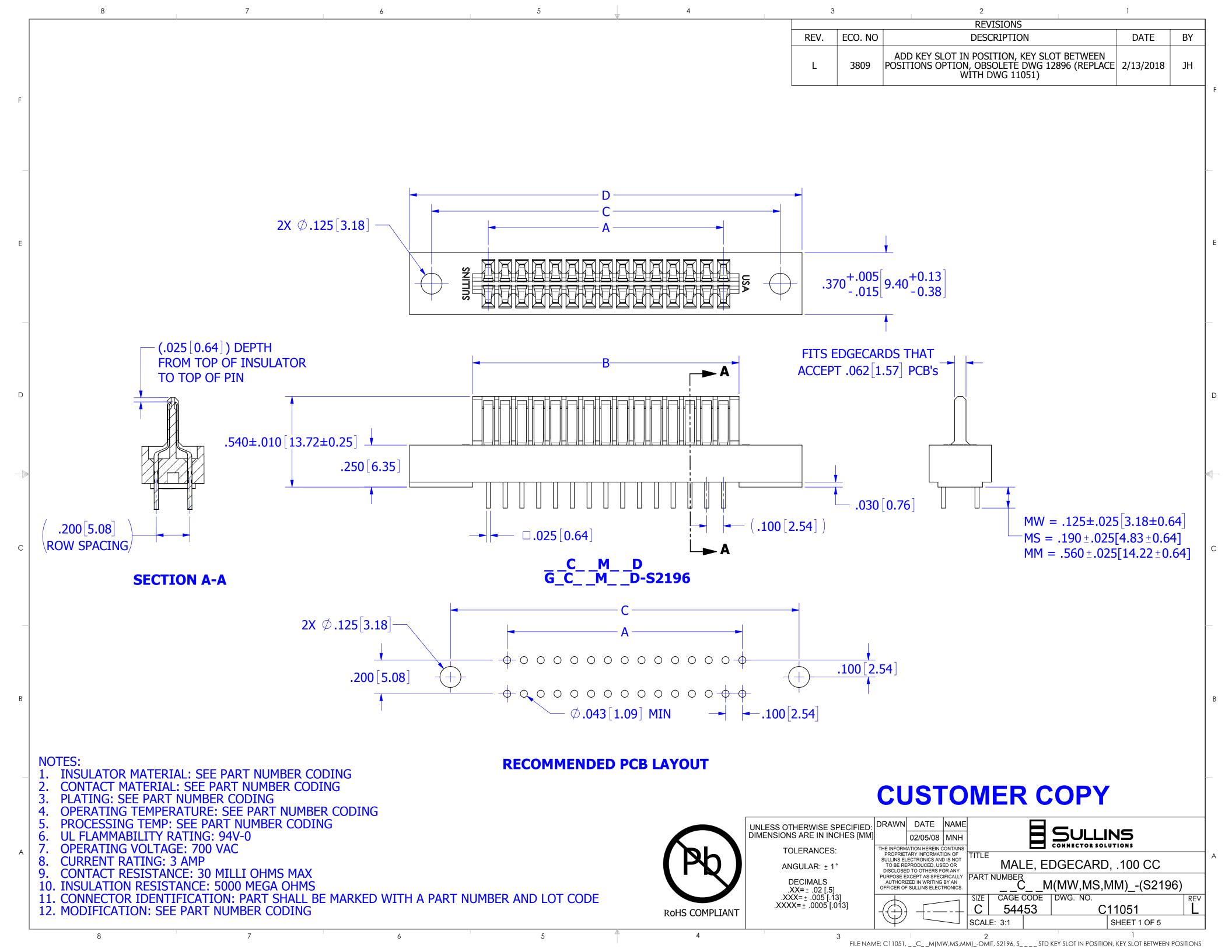
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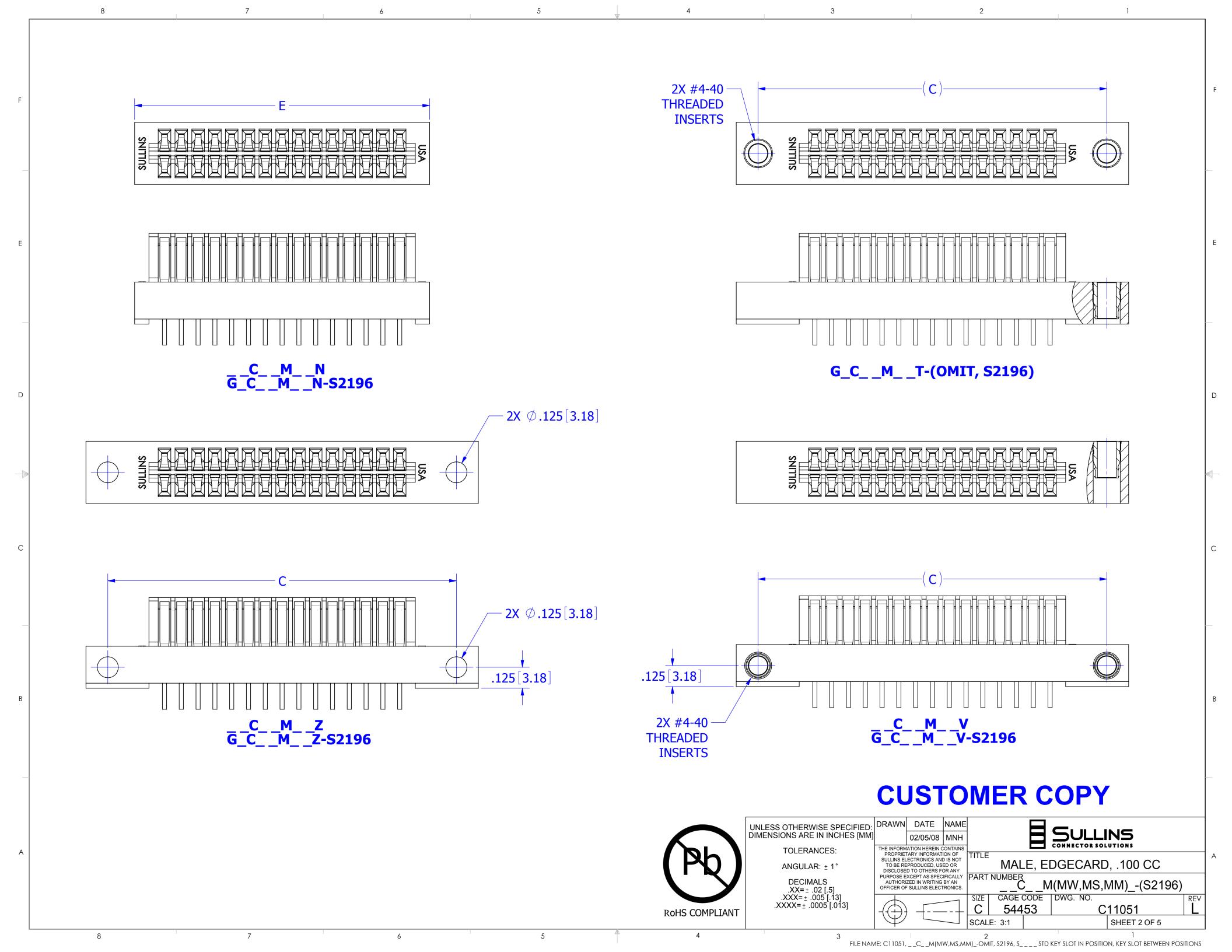
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











8			7			6				5		
DART MUMBER	NO. OF POS.	A±.008[0.20]		B±.00	B±.008[0.20]		C±.010[0.25]		D±.020[0.51]		*E±.020[0.51]	
PART NUMBER		IN	ММ	IN	ММ	IN	ММ	IN	ММ	IN	ММ	
C04M	4	0.300	7.62	0.486	12.34	0.975	24.77	1.236	31.39	0.656	16.66	
C05M	5	0.400	10.16	0.586	14.88	1.075	27.31	1.336	33.93	0.756	19.20	
C06M	6	0.500	12.70	0.686	17.42	1.175	29.85	1.436	36.47	0.856	21.74	
C07M	7	0.600	15.24	0.786	19.96	1.275	32.39	1.536	39.01	0.956	24.28	
C08M	8	0.700	17.78	0.886	22.50	1.375	34.93	1.636	41.55	1.056	26.82	
C09M	9	0.800	20.32	0.986	25.04	1.475	37.47	1.736	44.09	1.156	29.36	
C10M	10	0.900	22.86	1.086	27.58	1.575	40.01	1.836	46.63	1.256	31.90	
C11M	11	1.000	25.40	1.186	30.12	1.675	42.55	1.936	49.17	1.356	34.44	
C12M	12	1.100	27.94	1.286	32.66	1.775	45.09	2.036	51.71	1.456	36.98	
C13M	13	1.200	30.48	1.386	35.20	1.875	47.63	2.136	54.25	1.556	39.52	
C14M	14	1.300	33.02	1.486	37.74	1.975	50.17	2.236	56.79	1.656	42.06	
C15M	15	1.400	35.56	1.586	40.28	2.075	52.71	2.336	59.33	1.756	44.60	
C16M	16	1.500	38.10	1.686	42.82	2.175	55.25	2.436	61.87	1.856	47.14	
C17M	17	1.600	40.64	1.786	45.36	2.275	57.79	2.536	64.41	1.956	49.68	
C18M	18	1.700	43.18	1.886	47.90	2.375	60.33	2.636	66.95	2.056	52.22	
C19M	19	1.800	45.72	1.986	50.44	2.475	62.87	2.736	69.49	2.156	54.76	
C20M	20	1.900	48.26	2.086	52.98	2.575	65.41	2.836	72.03	2.256	57.30	
C21M	21	2.000	50.80	2.186	55.52	2.675	67.95	2.936	74.57	2.356	59.84	
C22M	22	2.100	53.34	2.286	58.06	2.775	70.49	3.036	77.11	2.456	62.38	
C23M	23	2.200	55.88	2.386	60.60	2.875	73.03	3.136	79.65	2.556	64.92	
C24M	24	2.300	58.42	2.486	63.14	2.975	75.57	3.236	82.19	2.656	67. <del>4</del> 6	
C25M	25	2.400	60.96	2.586	65.68	3.075	78.11	3.336	84.73	2.756	70.00	
C26M	26	2.500	63.50	2.686	68.22	3.175	80.65	3.436	87.27	2.856	72.54	
C27M	27	2.600	66.04	2.786	70.76	3.275	83.19	3.536	89.81	2.956	75.08	
C28M	28	2.700	68.58	2.886	73.30	3.375	85.73	3.636	92.35	3.056	77.62	
C29M	29	2.800	71.12	2.986	75.84	3.475	88.27	3.736	94.89	3.156	80.16	
C30M	30	2.900	73.66	3.086	78.38	3.575	90.81	3.836	97.43	3.256	82.70	
C31M	31	3.000	76.20	3.186	80.92	3.675	93.35	3.936	99.97	3.356	85.24	
C32M	32	3.100	78.74	3.286	83.46	3.775	95.89	4.036	102.51	3.456	87.78	
C33M	33	3.200	81.28	3.386	86.00	3.875	98.43	4.136	105.05	3.556	90.32	
C34M	34	3.300	83.82	3.486	88.54	3.975	100.97	4.236	107.59	3.656	92.86	
C35M	35	3.400	86.36	3.586	91.08	4.075	103.51	4.336	110.13	3.756	95.40	

**PART NUMBER CODING** 

PART NUMBER	NO. OF	A±.008[0.20]		B±.008[0.20]		C±.010[0.25]		D±.020[0.51]		*E±.020[0.51]	
PAKI NUMBEK	POS.	IN	ММ	IN	ММ	IN	ММ	IN	ММ	IN	ММ
C36M	36	3.500	88.90	3.686	93.62	4.175	106.05	4.436	112.67	3.856	97.94
C37M	37	3.600	91.44	3.786	96.16	4.275	108.59	4.536	115.21	3.956	100.48
C38M	38	3.700	93.98	3.886	98.70	4.375	111.13	4.636	117.75	4.056	103.02
C39M	39	3.800	96.52	3.986	101.24	4.475	113.67	4.736	120.29	4.156	105.56
C40M	40	3.900	99.06	4.086	103.78	4.575	116.21	4.836	122.83	4.256	108.10
C41M	41	4.000	101.60	4.186	106.32	4.675	118.75	4.936	125.37	4.356	110.64
C42M	42	4.100	104.14	4.286	108.86	4.775	121.29	5.036	127.91	4.456	113.18
C43M	43	4.200	106.68	4.386	111.40	4.875	123.83	5.136	130.45	4.556	115.72
C44M	44	4.300	109.22	4.486	113.94	4.975	126.37	5.236	132.99	4.656	118.26
C45M	45	4.400	111.76	4.586	116.48	5.075	128.91	5.336	135.53	4.756	120.80
C46M	46	4.500	114.30	4.686	119.02	5.175	131.45	5.436	138.07	4.856	123.34
C47M	47	4.600	116.84	4.786	121.56	5.275	133.99	5.536	140.61	4.956	125.88
C48M	48	4.700	119.38	4.886	124.10	5.375	136.53	5.636	143.15	5.056	128.42
C49M	49	4.800	121.92	4.986	126.64	5.475	139.07	5.736	145.69	5.156	130.96
C50M	50	4.900	124.46	5.086	129.18	5.575	141.61	5.836	148.23	5.256	133.50
C51M	51	5.000	127.00	5.186	131.72	5.675	144.15	5.936	150.77	5.356	136.04
C52M	52	5.100	129.54	5.286	134.26	5.775	146.69	6.036	153.31	5.456	138.58
C53M	53	5.200	132.08	5.386	136.80	5.875	149.23	6.136	155.85	5.556	141.12
C54M	54	5.300	134.62	5.486	139.34	5.975	151.77	6.236	158.39	5.656	143.66
C55M	55	5.400	137.16	5.586	141.88	6.075	154.31	6.336	160.93	5.756	146.20
C56M*	56	5.500	139.70	5.686	144.42					5.856	148.74
C57M*	57	5.600	142.24	5.786	146.96					5.956	151.28
C58M*	58	5.700	144.78	5.886	149.50					6.056	153.82
C59M*	59	5.800	147.32	5.986	152.04					6.156	156.36
C60M*	60	5.900	149.86	6.086	154.58					6.256	158.90
										WIND BAT	CONIV

WITHOUT MOLDED KEY SLOT

\*'N' MTG ONLY

WITH MOLDED KEY SLOT

**IN POSITION** (SEE PAGE 4)

# MATERIAL (INSULATOR/CONTACT)

E = BLUE PBT/PHOSPHOR BRONZE

OPERATING TEMP: -65°C TO +125°C

PROCESSING TEMP: WAVE/MANUAL SOLDERING ONLY

G = BLACK PA9T/PHOSPHOR BRONZE\*\*

OPERATING TEMP: -65°C TO +150°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

R = BLACK PPS/PHOSPHOR BRONZE\*\*

OPERATING TEMP:

-65°C TO +150°C ('B' OR 'C' PLATING)

-65°C TO +200°C ('M' PLATING ONLY)

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

Q = TAN PEEK/PHOSPHOR BRONZE\*\*

OPERATING TEMP: -65°C TO +250°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS AVAILABLE IN OVERALL GOLD ('M' PLATING ONLY)

#### PLATING-

#### ALL PLATINGS HAVE .000050" NICKEL UNDERPLATE

CONTACT SURFACE

B = .000010'' GOLDC = .000030" GOLDM = .000030" GOLD

\*\*OR EQUIVALENT

TERMINATION

.000100" PURE TIN, MATTE .000100" PURE TIN, MATTE

.000010" GOLD OVERALL

6

### **MODIFICATION**

OMIT FOR STANDARD, EX: 'EBC22MMWD'

S2196 = WHITE PA9T w/o MOLDED KEY SLOT (FOR MATERIAL CODE 'G' ONLY)

OTHER S# FOR PARTS WITH MOLDED KEY SLOT

SEE PAGE 4 FOR LOCATION OF KEY SLOT IN POSITION

SEE PAGE 5 FOR LOCATION OF KEY SLOT BETWEEN POSITIONS

#### MOUNTING STYLE

D = FLUSH .125" DIA. CLEARANCE HOLES

N = NO MOUNTING EARS

Z = FLUSH, .125" DIA. SIDE MOUNTING

T = FLUSH, #4-40 THREADED INSERT

V = FLUSH, SIDE MOUNT #4-40 THREADED INSERT

#### **TERMINATION**

MW = DIP SOLDER, .125[3.18] TAIL LENGTH

MS = DIP SOLDER, .190[4.93] TAIL LENGTH

MM = WIRE WRAP, .560[14.22] TAIL LENGTH

# NUMBER OF POSITIONS

(CONTACTS PER ROW)

**RoHS COMPLIANT** 

UNLESS OTHERWISE SPECIFIED: DRAWN DATE NAME DIMENSIONS ARE IN INCHES [MM] TOLERANCES: ANGULAR: ± 1° DECIMALS

.XX=± .02 [.5] .XXX=± .005 [.13] .XXXX=± .0005 [.013]

PROPRIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY

MALE, EDGECARD, .100 CC

M(MW,MS,MM) -(S2196)

54453 C11051 SCALE: 2:1 SHEET 3 OF 5

FILE NAME: C11051, \_\_C\_\_M(MW,MS,MM)\_-OMIT, \$2196, \$\_\_\_\_ STD KEY SLOT IN POSITION, KEY SLOT BETWEEN POSITIONS

WITH MOLDED KEY SLOT **BETWEEN POSITIONS** (SEE PAGE 5)

**CUSTOMER COPY** 

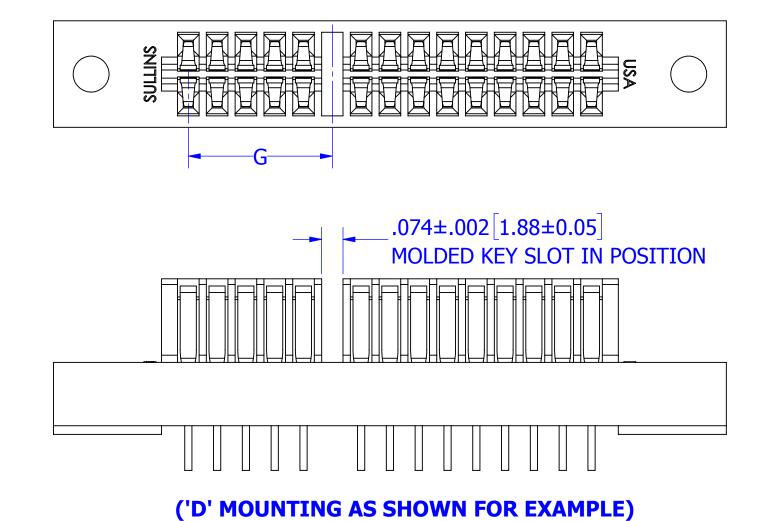
**SULLINS** THE INFORMATION HEREIN CONTAINS

AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS CAGE CODE | DWG. NO.

## **STANDARD LOCATION TABLE FOR KEY SLOT IN POSITION \*\*\***

STANDARD LOCATION TABLE FOR KEY S						
MOLDED KEY IN	MODIFICATION NUMBER	G±.008[±0.20]				
POSITION	(S#)	INCH	MM			
01		N/A	N/A			
02	S2001	0.100	2.54			
03	S1732	0.200	5.08			
04	S1769	0.300	7.62			
05	S2067	0.400	10.16			
06	S1442	0.500	12.70			
07	S1632	0.600	15.24			
08	S1180	0.700	17.78			
09	S1172	0.800	20.32			
10	S1599	0.900	22.86			
11		1.000	25.40			
12	S1810	1.100	27.94			
13	S1114	1.200	30.48			
14	S1013	1.300	33.02			
15	S1036	1.400	35.56			
16	S2174	1.500	38.10			
17	S1812	1.600	40.64			
18		1.700	43.18			
19		1.800	45.72			
20	S1293	1.900	48.26			
21	S1221	2.000	50.80			
22	S1808	2.100	53.34			
23		2.200	55.88			
24	S1788	2.300	58.42			
25	S2068	2.400	60.96			
26		2.500	63.50			
27		2.600	66.04			
28	S1242	2.700	68.58			
29		2.800	71.12			
30		2.900	73.66			
31		3.000	76.20			
32		3.100	78.74			
33		3.200	81.28			
34		3.300	83.82			
35		3.400	86.36			

MOLDED KEY IN	MODIFICATION NUMBER	G±.008[±0.20]			
POSITION	(S#)	INCH	MM		
36		3.500	88.90		
37		3.600	91.44		
38	S1306	3.700	93.98		
39		3.800	96.52		
40		3.900	99.06		
41	S1546	4.000	101.60		
42	S1405	4.100	104.14		
43		4.200	106.68		
44		4.300	109.22		
45		4.400	111.76		
46		4.500	114.30		
47		4.600	116.84		
48		4.700	119.38		
49		4.800	121.92		
50	S1561	4.900	124.46		
51	S1376	5.000	127.00		
52	S2247	5.100	129.54		
53		5.200	132.08		
54		5.300	134.62		
55		5.400	137.16		
56		5.500	139.70		
57		5.600	142.24		
58	S346	5.700	144.78		
59		5.800	147.32		
60		5.900	149.86		
ЬΟ		5.900	149.86		



## MATING SULLINS PRODUCT SERIES:

- 1. STD LOW PROFILE FEMALE CONNECTORS WITH MOLDED KEY IN POSTION
- 2. STD HIGH PROFILE FEMALE CONNECTORS WITH MOLDED KEY IN POSITION

# **CUSTOMER COPY**

FILE NAME: C11051, \_\_C\_\_M(MW,MS,MM)\_-OMIT, S2196, S\_\_\_\_ STD KEY SLOT IN POSITION, KEY SLOT BETWEEN POSITIONS



UNLESS OTHERWISE SPECIFIED: DRAWN DATE NAME DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

DECIMALS

.XX=± .02 [.5]

.XXX=± .0005 [.13]

.XXXX=± .0005 [.013]

DRAWN DATE NAME

02/05/08 MNH

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PART NUMBER

C M(MW,MS,MM) -S

SIZE CAGE CODE DWG. NO.

C 54453 C11051

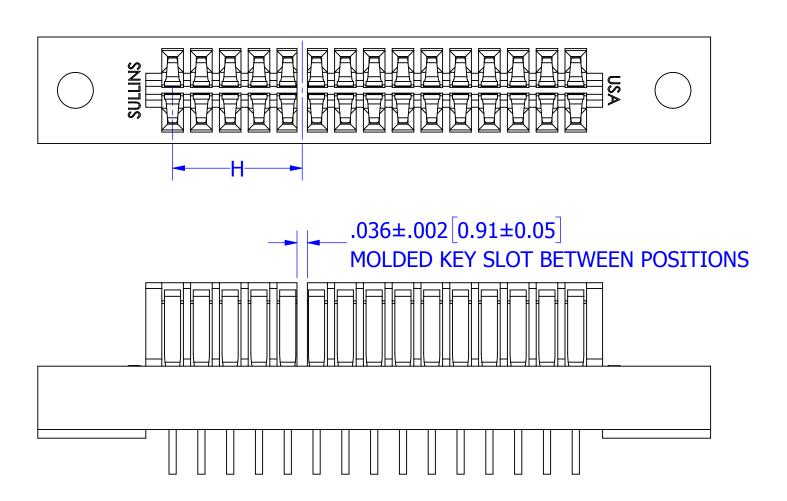
SCALE: 3:1 SHEET 4 OF 5

\*\*\*CONNECTOR TOTAL POSITIONS MUST BE AT LEAST ONE POSITION LONGER THAN KEY SLOT LOCATION.

6

## **STANDARD LOCATION TABLE FOR KEY SLOT BETWEEN POSITIONS** \*\*\*

MOLDED KEY BETWEEN	H±.008	[±0. <b>2</b> 0]	MODIFICATION NUMBER (S#) FOR			
POSITIONS	INCH	ММ	STD KEY SLOT BETWEEN POSITIONS ONLY			
1&2	0.050	1.27	\$1061			
2&3	0.150	3.81	\$688			
3 & 4	0.250	6.35	\$715			
4&5	0.350	8.89	\$797			
5&6	0.450	11.43	\$1032			
6&7	0.550	13.97	\$2379			
7&8	0.650	16.51	S2038			
8&9	0.750	19.05				
9 & 10	0.850	21.59				
10 & 11	0.950	24.13	\$1245			
11 & 12	1.050	26.67				
12 & 13	1.150	29.21				
13 & 14	1.250	31.75				
14 & 15	1.350	34.29				
15 & 16	1.450	36.83				
16 & 17	1.550	39.37				
17 & 18	1.650	41.91				
18 & 19	1.750	44.45				
19 & 20	1.850	46.99				
20 & 21	1.950	49.53				
21 & 22	2.050	52.07				
22 & 23	2.150	54.61				
23 & 24	2.250	57.15				
24 & 25	2.350	59.69				
25 & 26	2.450	62.23	\$1105			
26 & 27	2.550	64.77				
27 & 28	2.650	67.31	\$1073			
28 & 28	2.750	69.85				
29 & 30	2.850	72.39				
30 & 31	2.950	74.93	\$1688			
31 & 32	3.050	77.47				
32 & 33	3.150	80.01	S1440			
33 & 34	3.250	82.55				
34 & 35	3.350	85.09	S1215			
35 & 36	3.450	87.63				
36 & 37	3.550	90.17				
37 & 38	3.650	92.71				
38 & 39	3.750	95.25				
39 & 40	3.850	97.79				
40 & 41	3.950	100.33				
41 & 42	4.050	102.87				
42 & 43	4.150	105.41				
43 & 44	4.250	107.95				
44 & 45	4.350	110.49				
45& 46	4.450	113.03				
46 & 47	4.550	115.57				
47 & 48	4.650	118.11				
48 & 49	4.750	120.65				
49 & 50	4.850	123.19				
50 & 51	4.950	125.73				
51 & 52	5.050	128.27				
52 & 53	5.150	130.81				
53 & 54	5.250	133.35				
54 & 55	5.350	135.89				
55 & 56	5.450	138.43				
56 & 57	5.550	140.97				
57 & 58	5.650	143.51				
58 & 59	5.750	146.05				
59 & 60	5.850	148.59				



### ('D' MOUNTING AS SHOWN FOR EXAMPLE)

#### MATING SULLINS PRODUCT SERIES:

- 1. STD LOW PROFILE FEMALE CONNECTORS WITH MOLDED KEY BETWEEN POSTIONS, OR WITH IN-BETWEEN CONTACT KEY (SULLINS P/N: PLA-K1)
- 2. HIGH PROFILE FEMALE CONNECTORS WITH MOLDED KEY .030" WIDE BETWEEN POSITIONS (CONSULT FACTORY FOR PART NUMBER)

# **CUSTOMER COPY**



UNLESS OTHERWISE SPECIFIED: DRAWN DATE NAME DIMENSIONS ARE IN INCHES [MM] TOLERANCES: ANGULAR: ± 1° DECIMALS .XX=± .02 [.5] .XXX=± .005 [.13] .XXXX=± .0005 [.013]

02/05/08 MNH THE INFORMATION HEREIN CONTAINS PROPRIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY PART NUMBER AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS

**SULLINS** 

MALE, EDGECARD, .100 CC, STD KEY SLOT BETWEEN POSITIONS

REV

SHEET 5 OF 5

\_C\_\_M(MW,MS,MM)\_ -S CAGE CODE DWG. NO. 54453 C11051

\*\*\*CONNECTOR TOTAL POSITIONS MUST BE AT LEAST ONE POSITION LONGER THAN KEY SLOT LOCATION.

6

5

7

FILE NAME: C11051, \_\_C\_\_M(MW,MS,MM)\_-OMIT, S2196, S\_\_\_\_ STD KEY SLOT IN POSITION, KEY SLOT BETWEEN POSITIONS

SCALE: 3:1