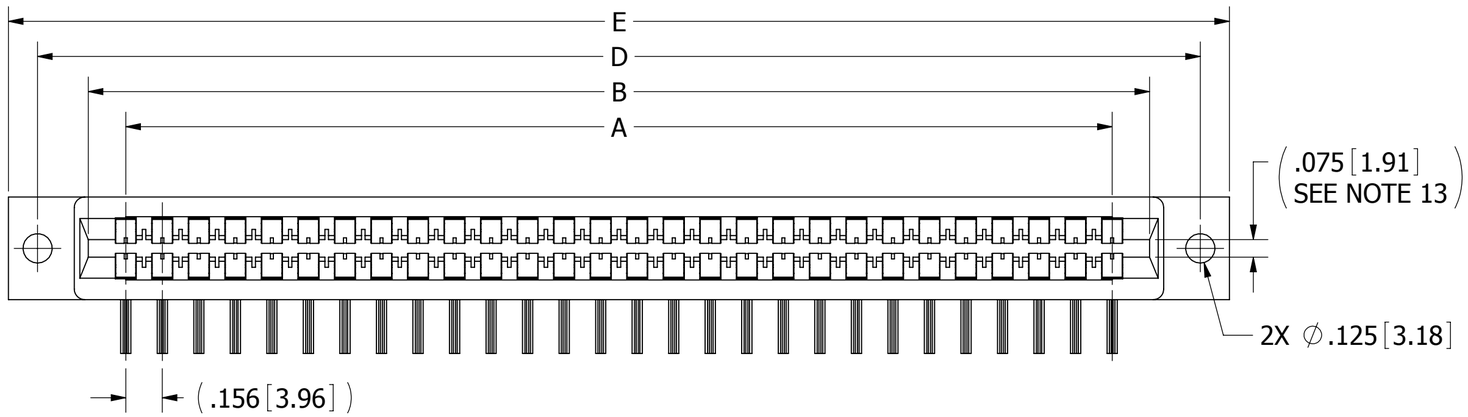
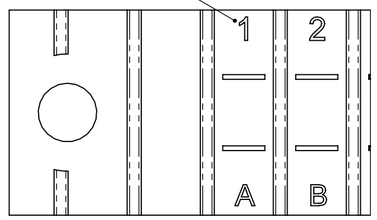
REVISIONS				
REV.	ECO. NO	DESCRIPTION	DATE	BY
A	1268	INITIAL RELEASE	2/3/07	MV
B	1390	ADD CURRENT RATING TO F MATERIAL	6/18/2007	MNH
C	1662	UPDATE DRAWING FORMAT & PART NUMBER CODING	4/23/2008	VJ
D	2909	UPDATE DWG FORMAT, ASSY NOTES, MAT C & W TO NICKEL, PART NUMBERCODING, F DIM. TOL., .050 TOL, ADD 4 POS TO TABLE, ADD PCB LAYOUT, & ADD CONTACT GAP DIM	2/3/2014	NC/JHSU



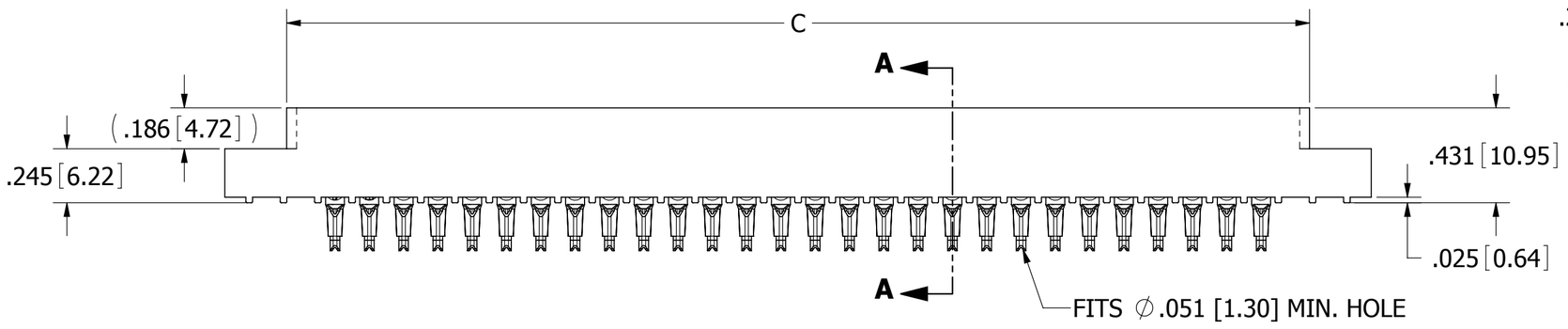
CONTACT MARKINGS
(LETTERS G, I, O, & Q NOT USED)

SIZE 02 THRU 25:
1 2 3 ... 23 24 ...
A B C ... AA BB ...

SIZE 28 THRU 44:
1 2 3 ... 23 24 ...
A B C ... A B ...

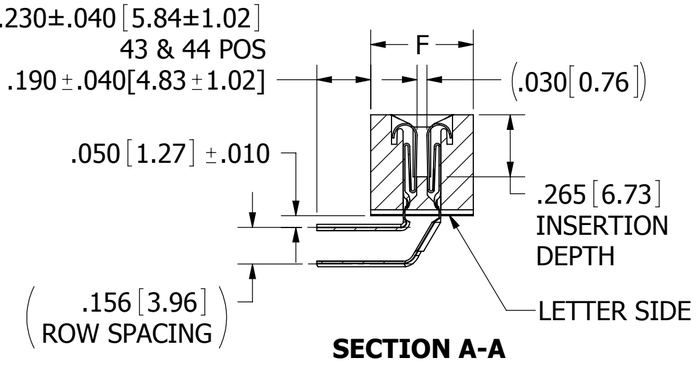


CONTACT ID
SCALE 3:1
(PINS OMITTED FOR CLARITY)



_ _M_ _DSAH

02 THRU 25 POS
.270 ± .040[6.86 ± 1.02]
28 THRU 36 POS
.230±.040 [5.84±1.02]
43 & 44 POS
.190 ± .040[4.83 ± 1.02]



SECTION A-A

NOTES:
1. INSULATOR MATERIAL: SEE PART NUMBER CODING.
2. CONTACT MATERIAL: SEE PART NUMBER CODING.
3. PLATING: SEE PART NUMBER CODING.
4. OPERATING TEMPERATURE: SEE PART NUMBER CODING.
5. PROCESSING TEMP: SEE PART NUMBER CODING.
6. UL FLAMMABILITY RATING: 94V-0.
7. OPERATING VOLTAGE: 950 VAC MINIMUM AT SEA LEVEL.
8. CURRENT RATING: 3 AMP.
9. CONTACT RESISTANCE: 30 MILLI OHMS MAX.
10. INSULATION RESISTANCE: 5000 MEGA OHMS.
11. DURABILITY: 500 CYCLES MIN.
12. CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A PART NUMBER AND LOT CODE.
13. BOARD THICKNESS ACCOMMODATED: .062 ± .008[1.57 ± 0.20].
14. INSERTION FORCE: 16 OZ MAX PER CONTACT PAIR WHEN USING A .062[1.57] TEST BLADE. INTERNAL INSPECTION TO BE PER SULLIN'S WORK INSTRUCTION WI7.3-01.
15. WITHDRAWAL FORCE: 1 OZ MIN PER CONTACT PAIR USING .062[1.57] PCB.

Pb
RoHS COMPLIANT

CUSTOMER COPY

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

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

DRAWN	DATE	NAME
	2/3/2007	MV

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 AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS.

SULLINS CONNECTOR SOLUTIONS

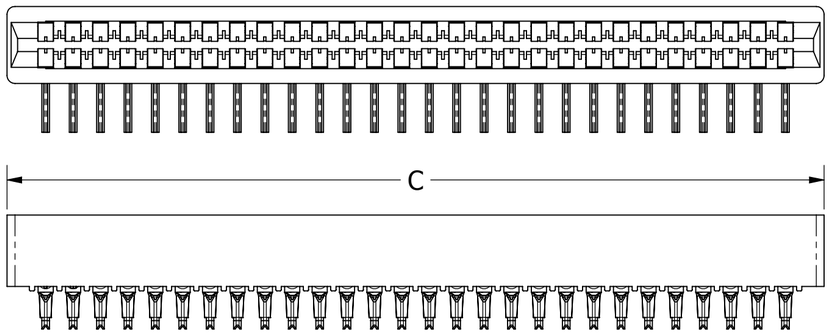
TITLE: EDGECARD, .156 CC, RAB

PART NUMBER: _ _M_ _DSA_

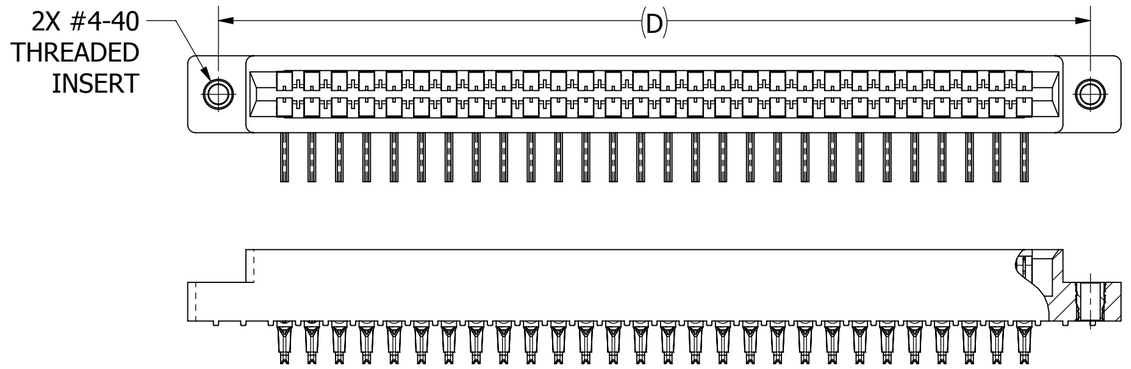
SIZE	CAGE CODE	DWG. NO.	REV
C	54453	C10890	D

SCALE: 2:1 | SHEET 1 OF 3

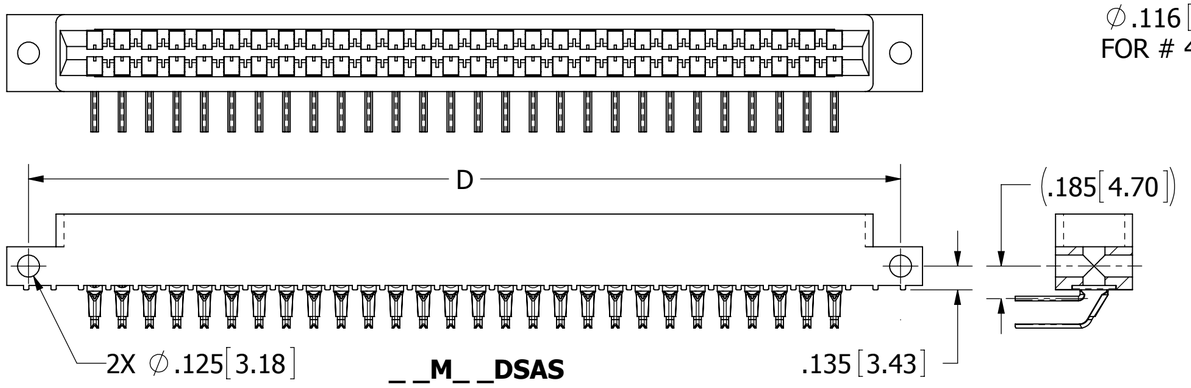
FILE NAME: C10890, _ _M_ _DSA_



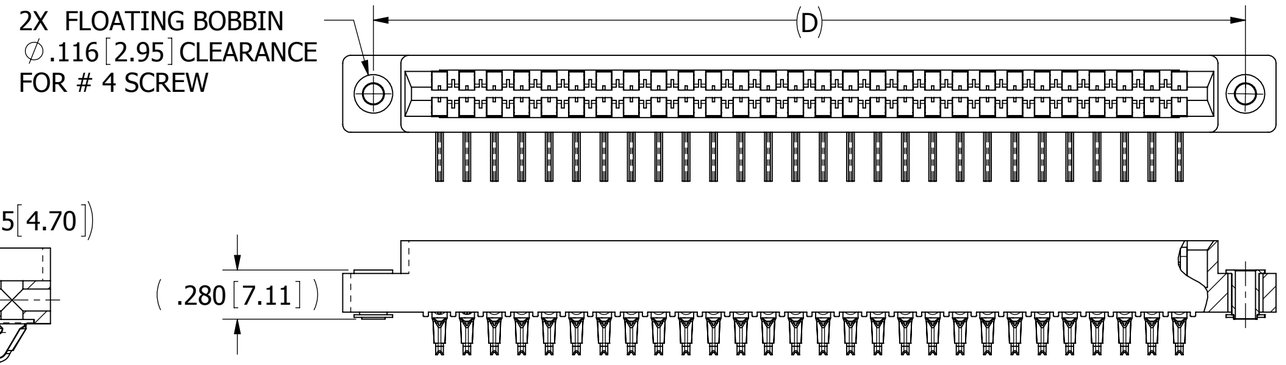
_ _M_ _DSAN



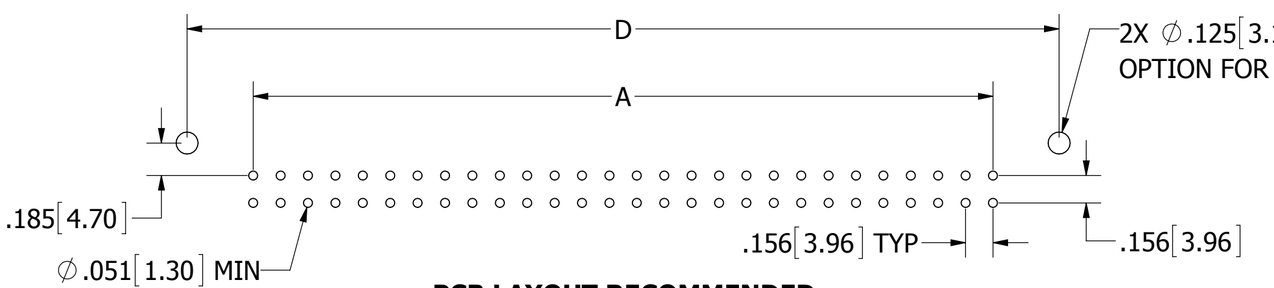
_ _M_ _DSAI



_ _M_ _DSAS



_ _M_ _DSAF



PCB LAYOUT RECOMMENDED

RoHS COMPLIANT

CUSTOMER COPY

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

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

DRAWN	DATE	NAME
	2/3/2007	MV

THE INFORMATION HEREIN CONTAINS PROPIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS.

SULLINS CONNECTOR SOLUTIONS

TITLE: EDGECARD, .156 CC, RAB

PART NUMBER: _ _M_ _DSA_

SIZE	CAGE CODE	DWG. NO.	REV
C	54453	C10890	D

SCALE: 3:2

FILE NAME: C10890, _ _M_ _DSA_

PART NUMBER	NO. OF POS.	A ± .008[0.20]		B ±.008[0.20]		C ±.015[0.38]		D ±.010[0.25]		E ± .020[0.51]		Only applies for connectors with threaded inserts or floats: E ±.020[0.51]		F +.005[0.13] -.015[0.38]	
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
_ _ M02DSAN	2	0.156	3.96	0.476	12.09	0.596	15.14	"N" MOUNTING						0.325	8.26
_ _ M03DSAN	3	0.312	7.92	0.632	16.05	0.752	19.10								
_ _ M04DSAN	4	0.468	11.89	0.788	20.02	0.908	23.06								
_ _ M06DSA _	6	0.780	19.81	1.100	27.94	1.220	30.99	1.533	38.94	1.782	45.26	1.882	47.80		
_ _ M08DSA _	8	1.092	27.74	1.412	35.86	1.532	38.91	1.845	46.86	2.094	53.19	2.194	55.73		
_ _ M10DSA _	10	1.404	35.66	1.724	43.79	1.844	46.84	2.157	54.79	2.406	61.11	2.506	63.65		
_ _ M11DSA _	11	1.560	39.62	1.880	47.75	2.000	50.80	2.313	58.75	2.562	65.07	2.662	67.61		
_ _ M12DSA _	12	1.716	43.59	2.036	51.71	2.156	54.76	2.469	62.71	2.718	69.04	2.818	71.58		
_ _ M15DSA _	15	2.184	55.47	2.504	63.60	2.624	66.65	2.937	74.60	3.186	80.92	3.286	83.46		
_ _ M18DSA _	18	2.652	67.36	2.972	75.49	3.092	78.54	3.405	86.49	3.654	92.81	3.754	95.35		
_ _ M22DSA _	22	3.276	83.21	3.596	91.34	3.716	94.39	4.029	102.34	4.278	108.66	4.378	111.20		
_ _ M24DSA _	24	3.588	91.14	3.908	99.26	4.028	102.31	4.341	110.26	4.590	116.59	4.690	119.13		
_ _ M25DSA _	25	3.744	95.10	4.064	103.23	4.184	106.27	4.497	114.22	4.746	120.55	4.846	123.09		
_ _ M28DSA _	28	4.212	106.98	4.532	115.11	4.652	118.16	4.965	126.11	5.214	132.44	5.314	134.98	0.438	11.13
_ _ M36DSA _	36	5.460	138.68	5.780	146.81	5.900	149.86	6.213	157.81	6.462	164.13	6.562	166.67		
_ _ M43DSA _	43	6.552	166.42	6.872	174.55	6.992	177.60	7.305	185.55	7.554	191.87	7.654	194.41	0.500	12.70
_ _ M44DSA _	44	6.708	170.38	7.028	178.51	7.148	181.56	7.461	189.51	7.710	195.83	7.810	198.37		

PART NUMBER CODING

_ _ M _ _ DSA _

MATERIAL (INSULATOR/CONTACT)

E = PBT/PHOSPHOR BRONZE
OPERATING TEMP: -65°C TO +125°C
PROCESSING TEMP: WAVE/MANUAL SOLDERING

R = PPS/PHOSPHOR BRONZE
OPERATING TEMP: -65°C TO +125°C
PROCESSING TEMP: 260°C FOR 120 SECS MAX

G = PA9T/PHOSPHOR BRONZE
OPERATING TEMP: -65°C TO +125°C
PROCESSING TEMP: 260°C FOR 20 SECS MAX

H = PBT/BERYLLIUM COPPER
OPERATING TEMP: -65°C TO +125°C
PROCESSING TEMP: WAVE/MANUAL SOLDERING

A = PPS/BERYLLIUM COPPER
OPERATING TEMP: -65°C TO +150°C
PROCESSING TEMP: 260°C FOR 120 SECS MAX

J = PA9T/BERYLLIUM COPPER
OPERATING TEMP: -65°C TO +150°C
PROCESSING TEMP: 260°C FOR 20 SECS MAX

F = PPS/SPINODAL (CONSULT FACTORY)
AVAILABLE IN OVERALL GOLD ONLY (S OR M PLATING CODE)
OPERATING TEMP: -65°C TO +200°C

C = PPS/BERYLLIUM NICKEL (CONSULT FACTORY)
AVAILABLE IN OVERALL GOLD ONLY (M PLATING CODE)
OPERATING TEMP: -65°C TO +200°C
PROCESSING TEMP: 260°C FOR 120 SECS MAX

W = PEEK/BERYLLIUM NICKEL (CONSULT FACTORY)
AVAILABLE IN OVERALL GOLD ONLY (M PLATING CODE)
OPERATING TEMP: -65°C TO +250°C

(CONSULT FACTORY FOR OTHER MATERIALS)

NUMBER OF POSITIONS (CONTACTS PER ROW)

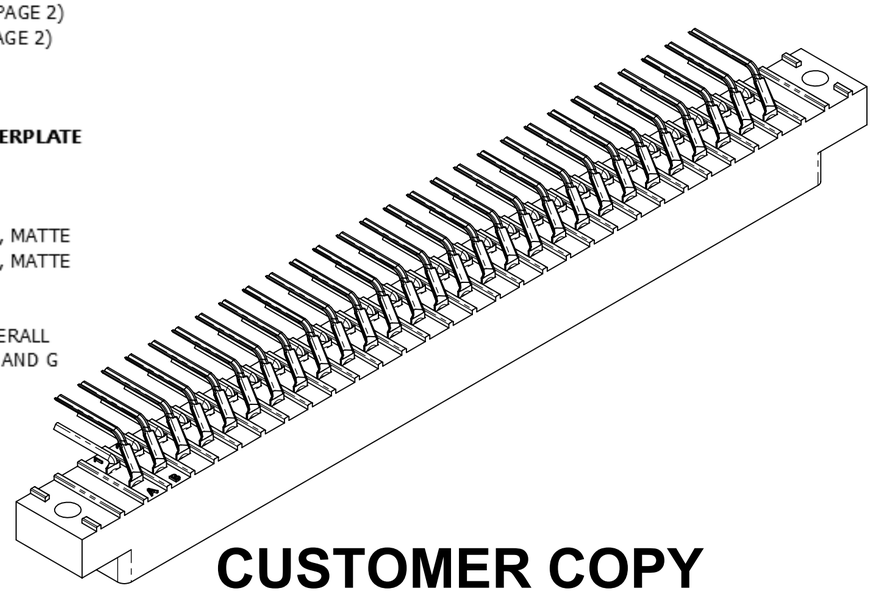
MOUNTING STYLE
H = .125" DIA. CLEARANCE HOLES (PAGE 1)
N = NO MOUNTING EARS (PAGE 2)
S = .125" DIA. SIDE MOUNTING (PAGE 2)
I = #4-40 THREADED INSERT (PAGE 2)
F = FLOATING BOBBIN (PAGE 2)

PLATING

ALL PLATINGS ARE LEAD FREE AND HAVE .000050" NICKEL UNDERPLATE

	CONTACT SURFACE	TERMINATION
G =	.000010" GOLD	.000005" GOLD
Y =	.000030" GOLD	.000005" GOLD
B =	.000010" GOLD	.000100" PURE TIN, MATTE
C =	.000030" GOLD	.000100" PURE TIN, MATTE
**T =	.000100" PURE TIN, MATTE, OVERALL	
S =	.000010" GOLD OVERALL	
M =	.000030" GOLD	.000010" GOLD OVERALL

** OVERALL TIN ONLY AVAILABLE ON MATERIAL CODES E, R AND G



CUSTOMER COPY

RoHS COMPLIANT

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

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

DRAWN	DATE	NAME
	2/3/2007	MV

THE INFORMATION HEREIN CONTAINS PROPIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS.

SULLINS CONNECTOR SOLUTIONS

TITLE: EDGECARD, .156 CC, RAB

PART NUMBER: _ _M_ _DSA_

SIZE	CAGE CODE	DWG. NO.	REV
C	54453	C10890	D

SCALE: 2:1 SHEET 3 OF 3

FILE NAME: C10890, _ _M_ _DSA_