DWG. NO.
SA94843

RBGT GROUNDING & RBMT MOUNTING TRACKS

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PRO-E

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REV	DESCRIPTION	BY DATE	CHKD DATE
U	REVISED PER ECN 12047	RSK 10-09-13	SDH 10-09-13
T	REVISED PER ECN 11710	RSK 05-02-12	SDH 05-02-12
S	REVISED PER ECN 11271	VKP 11-15-10	SDH 11-15-10
R	REVISED PER ECN 7622	JRD 09-20-02	SDH 09-20-02

SUPERSEDES: SE94843-5

DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH mm INCH [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
ONE PLACE	±.1 [±3]
TWO PLACES	±.02 [±0.5]
THREE PLACES	±.010 [±0.25]
ANGLES±1°	

CAGE NO.: 09922

SIZE: A

CUSTOMER

INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.

SOURIAU

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APPROVAL		
DRAWN:	VKP	11-15-10
CHKD :	SDH	11-15-10
DSGN :	JDA	10-13-92
MFG :	DH	11-15-10
QC :	DK	11-15-10

DRAWING SCALE: 1:1

DRAWING NO.	REV
SA94843	U

DWG. NO.
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PRO-E

NOTES:

1. GROUNDING TRACK ACCOMMODATES PIN CONTACTS PER MIL-C-39029/1-101.
   WITH A WIRE RANGE OF 24-22-20 AWG.
   USE INSERTION/REMOVAL TOOL PER MIL-I-81969/14C-11.

MATERIAL:

STRAIN RELIEF GROMMET:	SILICONE RUBBER, COLOR RED
GROMMET BONDING:	EPOXY
GROUNDING MODULE BODY:	GLASS FORTIFIED THERMOPLASTIC UL94V-0. COLOR BLUE
GROUNDING AND MOUNTING TRACKS:	6063-T6 ALUMINUM
GROUNDING RIVETS:	ALUMINUM ALLOY
GROUNDING SOCKET CONTACTS:	BERYLLIUM COPPER
CONTACT RETENTION CLIPS:	BERYLLIUM COPPER
SOCKET CONTACT SLEEVES:	THERMOPLASTIC, LIQUID CRYSTAL POLYMER
TERMINAL IDENTIFICATION STRIP:	THERMOPLASTIC, UL94V-0, COLOR WHITE
PROTECTIVE COATING:	POLYURETHANE, COLOR OPTIONAL

FINISH:

GROUNDING AND MOUNTING TRACKS:	CHROMATE CONVERSION COATING PER MIL-C-81706, CLASS 3, METHOD C, COLOR GOLD. (REF: ALODINE 1200)
GROUNDING SOCKET CONTACTS:	50 MICROINCHES [1.27 MICRONS] MIN. NICKEL ALL OVER. PIN CONTACT CURRENT BEARING SURFACE OVER-PLATED WITH 50 MICROINCHES [1.27 MICRONS] MIN. HARD GOLD.

DESCRIPTION TABLE

SOURIAU CATALOG NO.	(O.A LENGTH)	WEIGHT (g)
RBGT2	2.000 [50.80]	17.5
RBGT4	4.000 [101.60]	35.0
RBGT6	6.000 [152.40]	52.5
RBGT8	8.000 [203.20]	70.0
RBGT10	10.000 [254.00]	87.5
RBGT14	14.000 [355.60]	122.5
RBGT16	16.000 [406.40]	140.0
RBGT18	18.000 [457.20]	157.5
RBGT20	20.000 [508]	175.0
RBGT22	22.000 [558.80]	192.5
RBGT26	26.000 [660.40]	227.5
RBGT28	28.000 [711.20]	245.0
RBGT34	34.000 [863.60]	297.5
RBGT38	38.000 [965.20]	332.5
RBMT2	2.000 [50.80]	6.25
RBMT4	4.000 [101.60]	12.5
RBMT6	6.000 [152.40]	18.75
RBMT8	8.000 [203.20]	25.0
RBMT10	10.000 [254.00]	31.25
RBMT14	14.000 [355.60]	43.75
RBMT16	16.000 [406.40]	50.0
RBMT18	18.000 [457.20]	56.25
RBMT20	20.000 [508]	62.5
RBMT22	22.000 [558.80]	68.75
RBMT26	26.000 [660.40]	81.25
RBMT28	28.000 [711.20]	87.5
RBMT34	34.000 [863.60]	106.25
RBMT38	38.000 [965.20]	118.75

REV		BY DATE	CHKD DATE
---	ALL REV. RECORDED ON SHT. 1	---	---

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DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH mm **INCH** [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
ONE PLACE	±.1 [±3]
TWO PLACES	±.02 [±0.5]
THREE PLACES	±.010 [±0.25]
ANGLES±1°	

CAGE NO.: 09922

SIZE: A

CUSTOMER

INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.

SOURIAU

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APPROVAL		
DRAWN:	VKP	11-15-10
CHKD :	SDH	11-15-10
DSGN :	JDA	10-13-92
MFG :	DH	11-15-10
QC :	DK	11-15-10

DRAWING SCALE: 1:1

DRAWING NO.	REV
SA94843	U

DWG. NO.
SA94843

PERFORMANCE CHARACTERISTICS

ELECTRICAL:

CONTACT RESISTANCE:	IN ACCORDANCE WITH MIL-T-81714. PARA. 4.6.16. REF: MIL-STD-1344. METHOD 3004. SIZE 16-20: 45 MILLIVOLTS MAX. AT 7.5A WITH 20 AWG SILVER PLATED WIRE.
LOW LEVEL CONTACT RESISTANCE:	IN ACCORDANCE WITH MIL-T-81714. PARA. 4.6.17. REF: MIL-STD-1344. METHOD 3002. SIZE 16-20: .009 OHMS MAX. WITH 20 AWG SILVER PLATED WIRE.
VOLTAGE STABILITY:	4 MILLIVOLT MAX. DIFFERENCE BETWEEN RECORDED HIGHEST AND LOWEST POTENTIAL DROP VALUES IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.18.

ENVIRONMENTAL:

FLUID IMMERSION:	ALL MATERIALS ARE RESISTANT TO BMS3-11 (SKYDROL LD-4) AND MIL-H-5606 HYDRAULIC FLUIDS, AND MIL-L-7808 AND MIL-L-23699 LUBRICATING OILS.
HUMIDITY:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.10. REF: MIL-STD-1344, METHOD 1002, TYPE II, (EXCEPT WITHOUT STEP 7b)
SALT SPRAY:	500 HOURS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.12. REF: MIL-STD-1344, METHOD 1001, TEST CONDITION C.
VIBRATION (SINUSOIDAL):	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.8.1. REF: MIL-STD-202, METHOD 204, TEST CONDITION G.
VIBRATION (RANDOM):	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.8.2. REF: MIL-STD-1344, METHOD 2005, TEST CONDITION VI,LETTER J.
MECHANICAL (IMPACT) SHOCK:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.9. REF: MIL-STD-1344, METHOD 2004, TEST CONDITION D.
THERMAL SHOCK:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.5. REF: MIL-STD-1344, METHOD 1003, TEST CONDITION A, (EXCEPT TEMPERATURE EXTREMES ARE -65°C TO +150°C [-85°F TO +302°F]).
TEMPERATURE LIFE:	150°C [302°F] FOR 1000 HOURS IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.13.
OZONE:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.14. REF: MIL-STD-1344, METHOD 1007.

REV	DESCRIPTION	BY DATE	CHKD DATE
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DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH mm — **INCH** [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
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THREE PLACES	±.010 [±0.25]
ANGLES±1°	

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QC :	DK	11-15-10

DRAWING SCALE: 1:1

DRAWING NO.	REV
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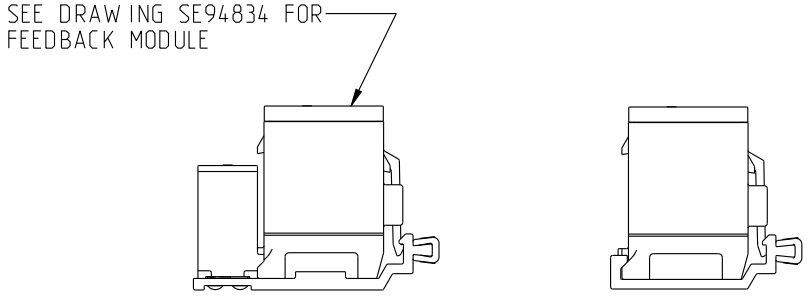
DWG. NO.
SA94843

PERFORMANCE CHARACTERISTICS

MECHANICAL:

MAGNETIC PERMEABILITY:	ALL MATERIALS DO NOT EXHIBIT A RELATIVE MAGNETIC PERMEABILITY OF GREATER THAN 2 IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.15. REF: MIL-STD-1344, METHOD 3006.
MAINTENANCE AGING:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.3.
CONTACT INSERTION/REMOVAL FORCE:	10 LBS [44,4N] MAX. IN ACCORDANCE WITH MIL-T-81714, PARA.4.6.3
CONTACT RETENTION:	20 LBS [88,9N] MIN. IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.4. AXIAL DISPLACEMENT DOES NOT EXCEED .012 [0,30]. REF: MIL-STD-1344, METHOD 2007.
PROBE DAMAGE:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.2.
RETENTION SYSTEM FLUID IMMERSION:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.23.
INTERNAL CONTACT DURABILITY:	100 CYCLES OF MATING AND UNMATING TO DEPTH OF MECHANICAL AND ELECTRICAL ENGAGEMENT IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.19.
OVERSIZE PIN CONTACT PROTECTION:	GROUNDING MODULE DESIGNED TO PREVENT ENTRANCE OF AN OVERSIZE TEST PIN OF Ø.070 [1,78] IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.20.
CONTACT WALKOUT:	IN ACCORDANCE WITH MIL-T-81714, PARA. 4.6.22. REF: MIL-STD-1549.



FEEDBACK MODULE INSTALLED IN
GROUNDING AND MOUNTING TRACKS
SCALE 1:1

REV	DESCRIPTION	BY DATE	CHKD DATE
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DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH / mm — INCH [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
ONE PLACE	±.1 [±3]
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THREE PLACES	±.010 [±0.25]
ANGLES±1°	

CAGE NO.: 09922

SIZE: A

CUSTOMER

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DRAWING SCALE: 1:1

DRAWING NO.	REV
SA94843	U

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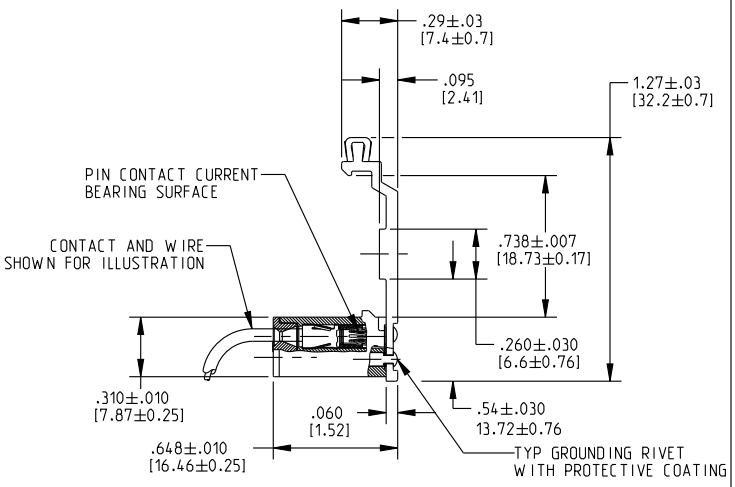

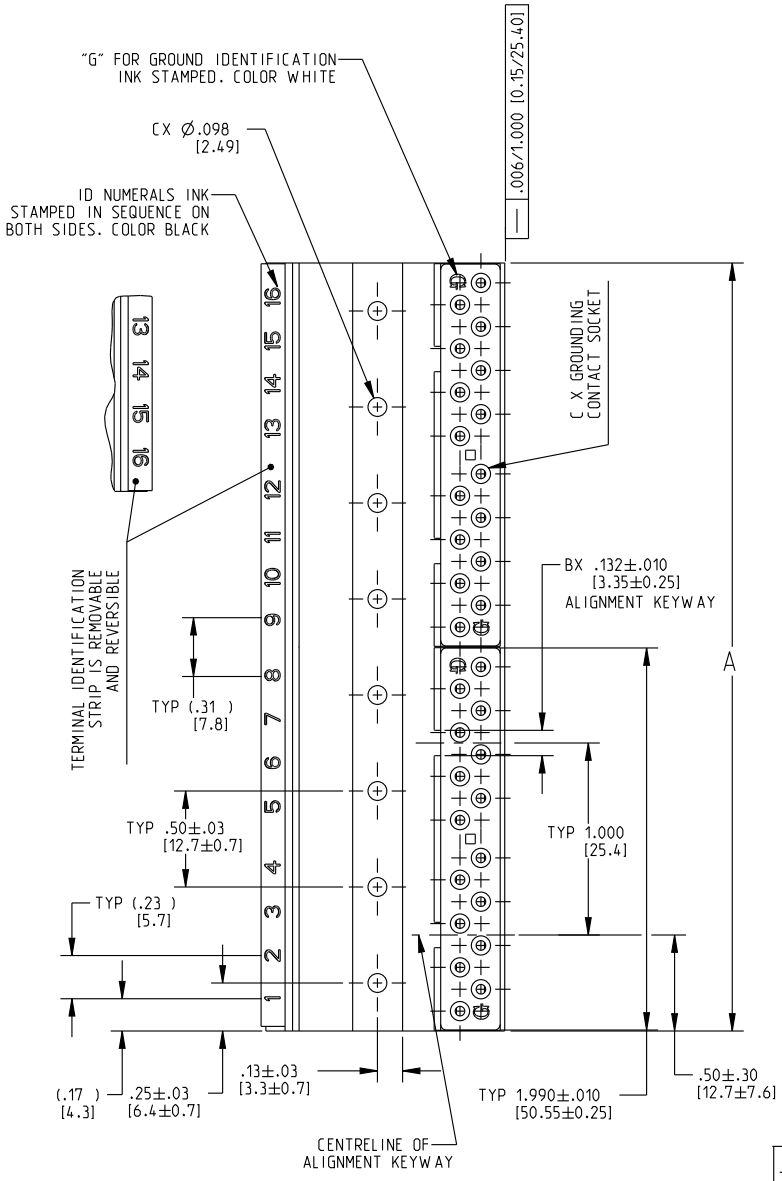

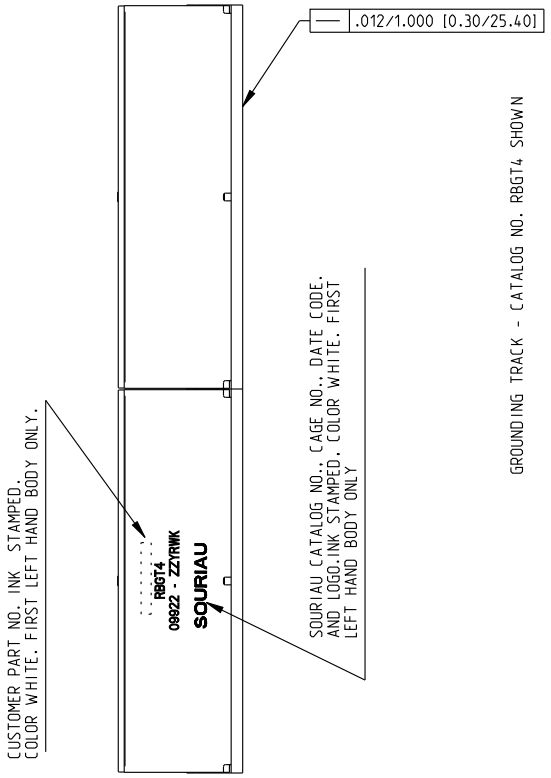

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DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH mm **INCH** [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
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ANGLES±1°	

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SIZE: A

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DRAWING SCALE: 1:1

DRAWING NO.	REV
SA94843	U

5 OF 6

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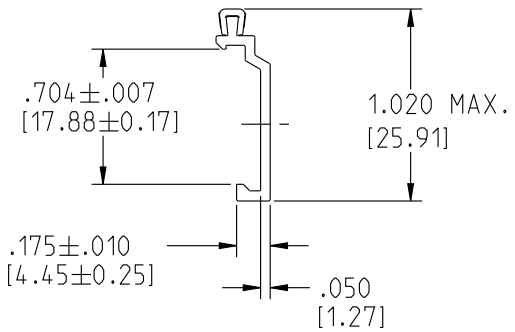

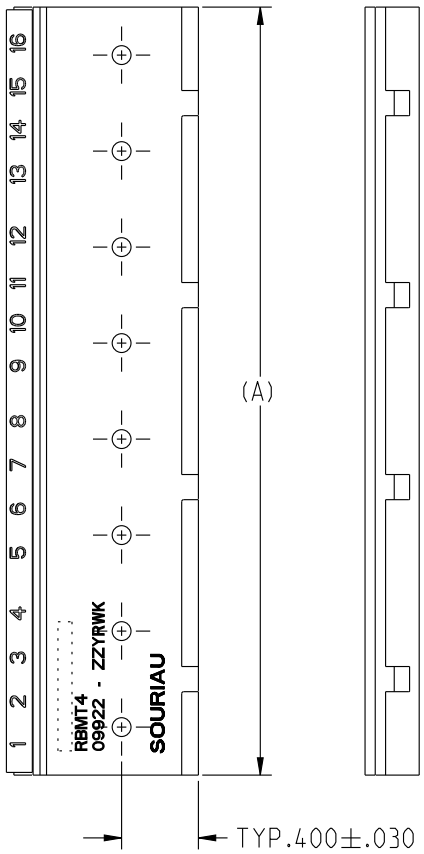

MOUNTING TRACK - CATALOG NO. RBMT4 SHOWN

DIMENSIONS, INK STAMPING, AND OTHER FEATURES ARE THE SAME AS THE GROUNDING TRACK EXCEPT AS SHOWN.

GROUNDING TRACK		MOUNTING TRACK		A ±.010 [0.25]	B	C	FEEDBACK MODULES ACCOMMODATED SEE DWG. SE94834
SOURIAU CATALOG NO.	BOEING PART NO.	SOURIAU CATALOG NO.	BOEING PART NO.				
RBGT2	S280W555-502	RBMT2	S280W555-602	2.000 [50.80]	2	16	2
RBGT4	S280W555-504	RBMT4	S280W555-604	4.000 [101.60]	4	32	4
RBGT6	S280W555-506	RBMT6	S280W555-606	6.000 [152.40]	6	48	6
RBGT8	S280W555-508	RBMT8	S280W555-608	8.000 [203.20]	8	64	8
RBGT10	S280W555-510	RBMT10	S280W555-610	10.000 [254.00]	10	80	10
RBGT14	S280W555-514	RBMT14	S280W555-614	14.000 [355.60]	14	112	14
RBGT16	S280W555-516	RBMT16	S280W555-616	16.000 [406.40]	16	128	16
RBGT18	S280W555-518	RBMT18	S280W555-618	18.000 [457.20]	18	144	18
RBGT20	S280W555-520	RBMT20	S280W555-620	20.000 [508]	20	160	20
RBGT22	S280W555-522	RBMT22	S280W555-622	22.000 [558.80]	22	176	22
RBGT26	S280W555-526	RBMT26	S280W555-626	26.000 [660.40]	26	208	26
RBGT28	S280W555-528	RBMT28	S280W555-628	28.000 [711.20]	28	224	28
RBGT34	S280W555-534	RBMT34	S280W555-634	34.000 [863.60]	34	272	34
RBGT38	S280W555-538	RBMT38	S280W555-638	38.000 [965.20]	38	304	38

REV	ECN NUMBER	BY DATE	CHKD DATE
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DRAWING TITLE
TRACKS, GROUNDING & MOUNTING

CAT NO.
RBGT__ & RBMT__ (SEE TABLE, SHT. 2)

LINEAR MEASURE: INCH (mm) INCH [mm]

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

No. OF PLACES	INCH [mm]
ONE PLACE	±.1 [±3]
TWO PLACES	±.02 [±0.5]
THREE PLACES	±.010 [±0.25]
ANGLES	±1°

CAGE NO.: 09922

SIZE: A

CUSTOMER

INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5M - 1994.

SOURIAU

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APPROVAL		
DRAWN:	VKP	11-15-10
CHKD :	SDH	11-15-10
DSGN :	JDA	10-13-92
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DRAWING SCALE: 1:1

DRAWING NO.	REV
SA94843	U

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

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