



REV	DATE	DESCRIPTION	BY	APPROVED	DATE
01		SEE DCN NO. 950307-03	FM		3/8/98
02		SEE DCN NO. 960103-01	CRP		3/10/98
03		SEE DCN NO. 970521-01	CRP		5/7/98

- NOTES**
- USE ROOM CURE EPOXY FORMULATED AS FOLLOWS:
EPOXY RESIN E.P.O.N. 828 IN RATIO OF 100 PARTS
EPOXY RESIN EM 308 IN A RATIO OF 70 PARTS
CAB-O-SIL TO THICKEN EPOXY MIXTURE
 - VACUUM SPECIFICATIONS REQUIREMENTS
ALL WELD JOINTS TO BE LEAK TIGHT
LEAK TEST, USING A LEAK DETECTOR
HAVING A SENSITIVITY OF
1 X 10⁻¹⁰ ATM CC/SEC. HELIUM.
 - ELECTRICAL RESISTANCE VALUES FOR
L₆ = 8.42 μH
R = 199.25Ω
Q = 9.8
 - HI POT AT 2 KVDC @ 5μA
 - WATER FLOW .32 GAL/MIN. AT 100 P.S.I.G.
 - ESTIMATED WT. 1100 LBS.

SECTION B - B

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|--|---|--|---|
| <p>▶ SOURCE:
EMERSON & CLIMING INC.
77 DRAGON CT.
WOBURN, MA 01888
(800) 832-4929</p> | <p>▶ SOURCE:
CMI ELECTRONICS
1000 W. 10TH ST.
PALATKA, IL 60467
(708) 359-5500
SIST. OF "CIRCUIT PRODUCTS"</p> | <p>▶ SOURCE:
EVENWOOD ELECTRIC
1801 MOEN AVE.
JOLIET, IL 60434
(815) 725-3900
SOURCE FOR "PANOUT"</p> | <p>▶ SOURCE:
MORTON THIKOL CHEMICAL DIV.
333 W. WACKER DR.
CHICAGO, IL 60606-1292
(312) 807-2000</p> |
| <p>▶ SOURCE:
PIONEER CHICAGO DIV.
2171 EXECUTIVE DR. SUITE 200
ADDISON, IL 60101</p> | <p>▶ SOURCE:
ARGONNE NAT'L LAB
5700 CASS AVE.
ARGONNE, IL
630-252-2000
APS/ASIS DIVISION</p> | <p>▶ SOURCE:
SHELL CHEMICAL CO.
ONE SHELL PLAZA
P.O. BOX 2463
HOUSTON, TX 77001
(713) 241-6161</p> | <p>▶ SOURCE:
CABOT CORP.
75 STATE ST.
BOSTON, MA 02109-1809
(617) 345-0100</p> |

STORAGE RING
AC THICK INJECTION SEPTUM
GENERAL ASSEMBLY
31010502-700000-03 A1785403
SHEET 1 OF 3

QTY	PART NO.	DESCRIPTION	UNIT	QTY
20		WASHER, LOCK #.250 NOM.	SST	24
19		WASHER, PLAIN #.250 NOM.	SST	24
18		SHCS .375-16 UNC-3A X 1.00 LG.	SST	4
17		WASHER, LOCK #.375 NOM.	SST	4
16	220107-710004	BRACKET	SST	1
15	220107-710001	SEPTUM PLATE	SEE DETAIL	1
14	220107-720004	CLAMP BLOCK	SEE DETAIL	2
13	220107-700003	SUPPORT BLOCK	SEE DETAIL	2
12	220107-700002	CONDUCTOR FLAG	SEE DETAIL	2
11	220107-700008	HOSE ASSEMBLY 35.00 LG.	SEE DETAIL	1
10	220107-700007	HOSE ASSEMBLY 28.00 LG.	SEE DETAIL	1
09	220107-700006	HOSE ASSEMBLY 22.00 LG.	SEE DETAIL	1
08	220107-700005	HOSE ASSEMBLY 16.00 LG.	SEE DETAIL	1
07	31010502-700001	MODIFIED FLANGE #3.375	SEE DETAIL	1
06	31010502-700100	VACUUM CHAMBER SUB-ASSEMBLY	SEE DETAIL	1
05	220107-750000	MAGNET COIL ASSEMBLY	SEE DETAIL	1
04	220107-740000	FLAG ASSEMBLY	SEE DETAIL	2
03	220107-730000	TERMINAL ASSEMBLY	SEE DETAIL	2
02	220107-720000	MAGNET TERMINAL SUB-ASSEMBLY	SEE DETAIL	1
01	31010502-710100	MAGNET CORE SUB-ASSEMBLY	SEE DETAIL	1

QTY	PART NO.	DESCRIPTION	UNIT	QTY
09	77	SECO MET ADHESIVE "HENKEL"	CYANOACRYLATE	A/R
08	CAB-O-SIL	EPOXY THICKER		A/R
07	EM-308	EPOXY HARDENER		A/R
06	EPON 828	EPOXY RESIN		A/R
05	G10 .06 THK X 1.00 WIDE X 20.00 LG.	NEMA GRADE G10		3
04	G10 .06 THK X 1.00 WIDE X 48.00 LG.	NEMA GRADE G10		3
03	CATALYSTS 9	EPOXY ECCOBOND HARDENER	EPOXY	A/R
02	285	EPOXY ECCOBOND HARDENER	EPOXY	A/R
01	P5301-00033	TARGET LOCATING CUP-WELD ON		2
30	PL11M-C76	CABLE TIE - TEFZEL	XXXX	3
29		FILM STICKY BACK .004 THK X 1.00 WIDE	KAPTON	A/R
28		FILM STICKY BACK .005 THK X 1.25 WIDE	KAPTON	A/R
27	A0592AN	P.N. JUNCTION		6
26	C-101109-071H	THERMO SWITCH 71°C (160°F)		2
25		TERMINAL STRIP		2
24		FLT. WASHER NO. 10 I.D.	SST	4
23		SHCS NO. 10-32 UNC-3A X 1.50 LG.	SST	4
22		BRMS NO. 8-32 UNC-2A X .50 LG.	SST	4
21		HMCS 250-20 UNC-2A X .75 LG.	SST	24
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ARGONNE NATIONAL LABORATORY
ADVANCED PHOTON SOURCE

STORAGE RING
AC THICK INJECTION SEPTUM
GENERAL ASSEMBLY

31010502-700000 0.3

SCALE: 1:2

DO NOT SCALE DRAWING