

HIGH VOLTAGE RECTIFIER

MODEL AP105

REV E

TITLE

USED ON

MODEL SECTION

GPT-40K

LIST SECTIONS

SHEET NO.

1. SUPPORTING NOTES
2. SUPPORTING LISTS
3. ELECTRICAL/MECHANICAL
4. SUPP ASSY/REF DWGS
5. SPECIFICATIONS
6. LOOSE ITEMS
7. PARTS PECULIAR

SEE BELOW  
NONE REQ  
1-13  
14-15  
16  
NONE REQ  
NONE REQ

LAST SYMBOLS

C8406	T8406
E8420	V8406
F8406	XF8406
L8403	XV8406

COMPILED	ENG COORD
CHECKED	J. SABATINO JS
APPROVED	F. BUDETTI
FNL APPR	<i>L. Sobal</i>
ISS DATE	REV E-8-17-64

MISSING SYMBOLS

NONE

NOTE 1. THE FOLLOWING  
SYMBOL, #, IN THE REMARKS  
COLUMN INDICATES THAT THE  
PART NUMBER IMMEDIATELY  
FOLLOWING IT IS THE TMC  
PROPRIETARY MANUFACTURING  
DRAWING FOR THE CORRES-  
PONDING NUMBER IN THE PART  
NUMBER COLUMN.

MATERIAL LIST / NUMERICAL PARTS LIST		REV.	E																MODEL: AP105				SHEET 1 OF 16	
			PART NO.					DESCRIPTION ELECTRICAL/MECHANICAL					ITEM LOCATION			QTY. PER UNIT		REFERENCE SYMBOLS		REMARKS				
										USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT												
BS100					SOLDER, TIN ALY					A1126														
										A2313														
										AP105														
CC109-38					CAP., FXD, CER					A2313		3			C8401, 8402, 8403		HV							
										A2313		3	6			C8404, 8405, 8406		HV						
CD101-1MW					CD, NYLON, LACING					CA514														
CI112Q1-2ROF					CORE, FXD, ROD					A1126		1												
										A1126		1												
										A1126		1	3											
CU102-2					CLAMP, LOOP					AP105		4	4					3/16D						
CU102-3					CLAMP, LOOP					A2313		1							1/4D					
										AP105		2	3					1/4D						
CU139-2B					FRL, HDL					AP105		4	4											
FH104-3					FUSEHOLDER, IND					A2314		1			XF8401		DS8401							
										A2314		1			XF8402		R8401							
										A2314		1			XF8403		DS8402							
										A2314		1			XF8404		R8402							
										A2314		1			XF8405		DS8403							
										A2314		1			XF8406		R8403							
										A2314		1	6			XF8406		DS8404						
										A2314		3			F8401, 8402, 8403		R8404							
FU102-1					FUSE, CTG, 1AMP					A2314		3	6			F8404, 8405, 8406		DS8405						
										A2314		3	6					R8405						
FW04HBN					WASH., FLAT					A2314		8	8					DS8406						
										A2314		8	8					R8406						

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

5

MODEL: AP105

SHEET 2 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
FW10HBN	WASH., FLAT	A1912		2	52		
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A2312		24			
		A2313		12			
		AP105		4			
FW25HBN	WASH., FLAT	A1841-1		1	20		
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A2313		12			
GA140-7N4	GASKET, RD	A1912		2	12		
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
GA140-12S6	GASKET, RD	A1841-1		2	16		
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 3 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
GL104-2	INSG VARN,ELEC	A1126					
HA102-2BN	HDL,BOW	AP105		2	2		
HB102-1	CLIP,ELEC	CA412-27		1			
		CA412-27		1			
		CA412-27		1			
		CA412-27		1			
		CA412-27		1			
		CA412-27		1	6		
LD662/MS1933	PNL,FRONT	A2314		1	1		
LD664/MS1932	CHAS,MAIN	A2313		1	1		
LD665/PX424	BD,MTG,RECT	A2312		1	1		
LD666/PX496	BD,MTG,CONTACT	A2315		1	1		
LWE04MRN	WASH.,LK,EXT	A2314		8	8		
LWE06MRN	WASH.,LK,EXT	A2313		12	12		
LWE10MRN	WASH.,LK,EXT	A2312		12			
		A2313		44			
		A2315		2			
		AP105		18	76		

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 4 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
LWS25MRN	WASH., LK, SPLIT	A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A2313		12			
		A2315		8	28		
MS1932	CHAS, MAIN	LD664		1	1	MACH	
MS1933	PNL, FRONT	LD662		1	1	MACH	
MWC18/16/B7	WIRE, ELEC, BRD	CA514				VIO	
MWC18/16/B8	WIRE, ELEC, BRD	CA514				GY	
MWC18/16/B9	WIRE, ELEC, BRD	CA514				WHT	
MWC18/16/B90	WIRE, ELEC, BRD	CA514				WHT/BLK	
MWC18/16/B97	WIRE, ELEC, BRD	CA514				WHT/VIO	
MWC18/16/B98	WIRE, ELEC, BRD	CA514				WHT/GY	
NS127-1	INS, BUSH.	A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1	8		

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 5 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
NS129	INS, BOWL	A1912		2	12		
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
NS3W0306	INS, STDOFF	A2315		2	2		
NT124	NUT, PLN, SPLINE	MS1933		2	2	RD	
NTH0440BN6	NUT, PLN, HEX	A2314		8	8		
NTH1032BN12	NUT, PLN, HEX	A1912		2	82		
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A2312		12			
		A2313		44			
		AP105		14			
NTH2520BN14	NUT, PLN, HEX	A1841-1		1	16		
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
A2315		8					
NTH2528BN14	NUT, PLN, HEX	A2313		18	18		

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 6 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
PM618	CONTACT, BUT.	A1841-1		1	8		
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
PX370-4-7	INS SLVG, TEF	A1912		6	36	NAT	NAT
		A1912		6			
		A1912		6			
		A1912		6			
		A1912		6			
		A1912		6			





**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

3

MODEL: AP105

SHEET 8 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
PX496	BD, MTG, CONTACT	LD666		1	1		MACH
PX533	INS, BEAD	A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1			
		A1841-1		1	8		
PX562-1	INS, BUSH., TEF	A1912		1			
		A1912		1			
		A1912		1			
		A1912		1			
		A1912		1			
		A1912		1	6		
SC139	SCR, EXT REL BODY	A2314		2	2		
SCBP0440BN10	SCR, MACH	A2314		8	8		
SCBP0632BN4	SCR, MACH	A2313		6	6		
SCBP0632BN5	SCR, MACH	A2313		6	6		
SCBP1032BN6	SCR, MACH	AP105		2	2		
SCBP1032BN10	SCR, MACH	AP105		6	6		
SCBP1032BN12	SCR, MACH	A2315		2	2		
SCBP1032BN14	SCR, MACH	AP105		8	8		

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 9 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
SCBP1032BN20	SCR, MACH	A2312		12	12		
SCFP1032BN8	SCR, MACH	A2313		8	8		
SCHH1032BN12	SCR, MACH	AP105		4	4		
SCHH2520BN8	SCR, MACH	A2313		6	6		
SCHH2520BN12	SCR, MACH	A2313		6	6		
SM1032BN6.625	STUD, CONT THD	A1912		1			
		A1912		1			
		A1912		1			
		A1912		1			
		A1912		1			
		A1912		1	6		
TE104-2	TERM., LUG, NO. 6	A2313		6	6		
TE153-2	TERM., LUG, RING	A1126		2			
		A1126		2			
		A1126		2	6		

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 10 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS	
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT				
TE155-34170	TERM., LUG, INS							
				CA412-11		2		NO.10
				CA412-11		2		NO.10
				CA412-27		1		NO.10
				CA412-27		1		NO.10
				CA412-27		1		NO.10
				CA412-27		1		NO.10
				CA412-27		1		NO.10
				CA412-27		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1		NO.10
				CA412-29		1	26	NO.10
				CA412-29		1		NO.10



**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 12 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
WA109-52	WASH.,NM	A1912		2	12		
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
		A1912		2			
WA109-55	WASH.,NM	A1841-1		2	16		
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
		A1841-1		2			
WA109-56	WASH.,NM	A2315		2	4		
		AP105		2			
WI107-7	WIRE,ELEC,MAG	A1126		110	330		SZ 26
		A1126		110			SZ 26
		A1126		110			SZ 26

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

5

MODEL: AP105

SHEET 13 OF 16

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS	
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT				
WL100-1	WIRE,ELEC,BUSS			CA412-11	11		SZ 10	
				CA412-11	11		SZ 10	
				CA412-28	5		SZ 10	
				CA412-28	5		SZ 10	
				CA412-28	10		SZ 10	
				CA412-28	11		SZ 10	
				CA412-28	17		SZ 10	
				CA412-28	17		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	6		SZ 10	
				CA412-29	11	188		SZ 10
		WL103-4	BRD,WIRE,FLAT			CA412-27	4	
				CA412-27	4			
				CA412-27	4			
				CA412-27	4			
				CA412-27	4			
				CA412-27	4	24		
6895	ELECTRON TUBE			A2312	3	V8401,8402,8403	RECT	
				A2312	3	V8404,8405,8506	RECT	

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL:

AP105

SHEET 14 OF 16

PART NO.	DESCRIPTION SUPP ASSY/REF DWGS	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
A2312	BD ASSY,RECT	A2313		1	1		
A2313	CHAS ASSY,MAIN	AP105		1	1		
A2314	PNL ASSY,FRONT	AP105		1	1		
A2315	BD ASSY,REAR	AP105		1	1		
AX220-1	CONTACT ASSY,HV	A2315		3		E8413,8414,8415	#A1841-1
		A2315		3		E8416,8417,8418	#A1841-1
		A2315		2	8	E8419,8420	#A1841-1
AX228	INS,FDTHRU	A2313		3		E8407,8408,8409	#A1912
		A2313		3	6	E8410,8411,8412	#A1912
CA412-11-10.75	LEAD,ELEC	A2313		1		E8408 TO E8410	
		A2313		1	2	E8410 TO E8412	
CA412-27-4.00	LEAD,ELEC	A2313		1		V8401 TO E8407	
		A2313		1		V8402 TO E8408	
		A2313		1		V8403 TO E8409	
		A2313		1		V8404 TO E8410	
		A2313		1		V8405 TO E8411	
		A2313		1	6	V8406 TO E8412	
CA412-28-4.12	LEAD,ELEC	A2313		1		T8403-4 TO E8417	
		A2313		1	2	T8406-4 TO E8420	
CA412-28-10.00	LEAD,ELEC	A2313		1	1	T8404-4 TO E8419	
CA412-28-10.75	LEAD,ELEC	A2313		1	1	T8403-4 TO T8405-4	
CA412-28-16.25	LEAD,ELEC	A2313		1		T8401-4 TO E8417	
		A2313		1	2	T8402-4 TO E8418	

**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

E

MODEL: AP105

SHEET 15 OF 16

PART NO.	DESCRIPTION SUPP ASSY/REF DWGS	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CA412-29-5.62	LEAD,ELEC	A2312		1		T8401-3 TO V8401	
		A2312		1		T8401-5 TO V8401	
		A2312		1		T8402-3 TO V8402	
		A2312		1		T8402-5 TO V8402	
		A2312		1		T8403-3 TO V8403	
		A2312		1		T8403-5 TO V8403	
		A2312		1		T8404-3 TO V8404	
		A2312		1		T8404-5 TO V8404	
		A2312		1		T8405-3 TO V8405	
		A2312		1		T8405-5 TO V8405	
		A2312		1		T8406-3 TO V8406	
		A2312		1		T8406-5 TO V8406	
		A2313		1		T8402-4 TO E8407	
		A2313		1		T8404-4 TO E8409	
		A2313		1	15	T8406-4 TO E8411	
CA412-29-10.75	LEAD,ELEC	A2313		1	1	E8408 TO E8413	
CA514	WRG HARN,BRCHD	A2313		1	1		
CH318	CHART,UNIT BKDN	AP105		1	1		
CK639	DIAG,SCHEM	AP105		1	1		
CL178	COIL,RF,FXD	A2313		3	3	L8401,8402,8403	#A1126



**MATERIAL LIST /  
NUMERICAL PARTS LIST**

REV.

3

MODEL: AP105

SHEET 16 OF 16

PART NO.	DESCRIPTION SPECIFICATIONS	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
S404	IRIDITE, YEL	MS1932					
		MS1933					
S114	ZN CHROMATE PRM	MS1933					
S115	ENAM, SMOOTH GY	MS1933					

