

XMTR CONV MODULE, 4-8MC

MODEL TTRT-2

REV

D

TITLE

USED ON
MODEL SECTION
TTR-10

LIST SECTIONS

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

SHEET NO.

SEE BELOW
NONE REQ
1-8
9
10
NONE REQ
NONE REQ

LAST SYMBOLS

C634		XY602
L608	S601	XZ601
Q607	T605	Y602
R625	W602	Z601

COMPILED	J. FERRERI
CHECKED	L. GABEL
APPROVED	T. AALTONEN
FNL APPR	<i>L. Gabel</i>
ISS DATE	<i>9-15-64</i>

MISSING SYMBOLS

C628
R608

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 CORRESPONDING NUMBER IN THE PART NUMBER COLUMN.

NOTE 2. ALL ITEMS REFERENCED TO THIS NOTE SHALL BE USED WHEN XTAL OVENS ARE REQUIRED BY CUSTOMER.
NOTE 3. ALL ITEMS REFERENCED TO THIS NOTE SHALL BE USED WHEN NO XTAL OVENS ARE REQUIRED BY CUSTOMER.

**MATERIAL LIST/
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 1 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
A3363-1	PC BD,MKG	A3363-2		1	1		
BS100	SOLDER,TIN ALY	A3223-15 A3223-20 A3223-21 A3223-22 A3223-23 A3363-2					
CC20RH020C	CAP.,FXD,CER	A3363-2		1	1	C617	
CC100-16	CAP.,FXD,CER	A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C608 C611 C615 C616 C618 C620 C623 C625 C626 C627 C629 C630 C632	
CC100-33	CAP.,FXD,CER	A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2 A3363-2		1 1 1 1 1 1 1 1		C619 C621 C622 C631 C633 C634 C624	
CE107-1	CAP.,FXD,ELECT.	A3363-2 A3363-2		1 1	6 1	C634 C624	TANT/INS
CI115	CORE,TOROID	A3223-15		1	1		

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL:

TTRT-2

SHEET 2 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CI127-4	CORE ,TOROID	A3223-20		1	4		
		A3223-21		1			
		A3223-22		1			
		A3223-23		1			
CL140-3	COIL ,RF ,FXD	A3363-2		1	7	L602	.270MH
		A3363-2		1		L603	.270MH
		A3363-2		1		L604	.270MH
		A3363-2		1		L605	.270MH
		A3363-2		1		L606	.270MH
		A3363-2		1		L607	.270MH
		A3363-2		1		L608	.270MH
CL240-100	COIL ,RF ,FXD	A3363-2		1	1	L601	
CM15B101J	CAP. ,FXD ,MICA	A3363-2		1	1	C609	
CM15B220J	CAP. ,FXD ,MICA	A3363-2		1	1	C606	
CM15B330J	CAP. ,FXD ,MICA	A3363-2		1	2	C613	
		A3363-2		1		C614	
CM15B430J	CAP. ,FXD ,MICA	A3363-2		1	1	C610	
CM15B820J	CAP. ,FXD ,MICA	A3363-2		1	1	C612	
CM20C821J	CAP. ,FXD ,MICA	A3363-2		1	1	C607	
CR110-1-FREQ	CU ,QTZ ,OVEN	A2845		1	2	Y601	NOTE 2
		A2845		1		Y602	NOTE 2
OR CR110-3-FREQ	CU ,QTZ ,AMBIENT	A2845		1	2	Y601	NOTE 3
		A2845		1		Y602	NOTE 3

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 3 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CT103-1	CAP., VAR, AIR	A3363-2		1		C602	3.2-50 UUF
		A3363-2		1		C603	3.2-50 UUF
		A3363-2		1		C604	3.2-50 UUF
		A3363-2		1	4	C605	3.2-50 UUF
CT104-3	CAP., VAR, AIR	A3363-2		1	1	C601	
FS118-1	LATCH, SNAPSLIDE	MS3370		2	2		
FS119-2	LATCHGUIDE, SNPSL	MS3370		2	2		
FS120-1	POST, SNAPSLIDE	MS3370		2	2		
FW04HBN	WASH., FLAT	A3363-2		2	2		
FW101-1	WASH., NM, NYLON	A3363-2		10	10		
GL102	ADHESIVE-Q DOPE	A3223-15					
		A3223-20					
		A3223-21					
		A3223-22					
		A3223-23					
HD100	HEAT SINK	A3363-2		1	1		
JJ219-18-9	JACK, TIP	MS3414		6	6		
LD1326/MS3379	CHAS, WRPARD	A2845		1	1		
LD1333/MS3370	PNL, FRONT	A2843		1	1		
LD1342/MS3414	BRKT, XTAL SOC	A3363-2		1	1	XY601, 602, XZ601	
LWE04MRN	WASH., LK, EXT	A2844		2			
		A3363-2		13	15		

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 4 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
LWI04MRN	WASH.,LK,INT	A3363-2		4	4		
LWI08MRN	WASH.,LK,INT	A2843		1	1		
LWI37MRN	WASH.,LK,INT	A3363-2		1	1		
MP126-1	KNOB,THD	A2843		1	1		
MS3370	PNL,FRONT	LD1333		1	1	MACH	
MS3372	BRKT,MTG,CAP.	A3363-2		1	1		
MS3377	PL,SD,L/R	A2844		2	2		
MS3379	CHAS,WRPARD	LD1326		1	1	MACH	
MS3380	SHIELD,RF	A3363-2		3	3		
MS3414	BRKT,XTAL SOC	LD1342		1	1	MACH	
MS3446	PL,XTAL RET.	A2845		1	1	NOTE 3	
MS3560	SHIELD,RF OUT	A3363-2		1	1		
MS4401	BRKT,RET.	A2844		1	1		
NP559	PL,ID,FREQ	A2844		1	1		
NP563	PL,ID,COMM	A2844		1	1		
NT129-440-4	NUT,PLN,SPLINE	MS3379		12			
		MS3414		2			
		MS4401		4	18		
NT137-0440	NUT,PLN,HEX,N	A3363-2		10	10		
NTH0440BN6	NUT,PLN,HEX	A3363-2		11	11		
NTH2532BN10	NUT,PLN,HEX	A3363-2		1	1		
NTH3732BN18	NUT,PLN,HEX	A3363-2		1	1		

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 5 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
OC100-1 OR	OVEN, XTAL, 12VDC	A2845		1	1	Z601	NOTE 2
OC100-2 OR	OVEN, XTAL, 24VDC	A2845		1	1	Z601	NOTE 2
OC100-3 OR	OVEN, XTAL, 115VAC	A2845		1	1	Z601	NOTE 2
OC100-4	OVEN, XTAL, 32VDC	A2845		1	1	Z601	NOTE 2
PC102-1	PC BD, ETCHING	PC102-2		1	1		
PC102-2	PC BD, MACH	PC102-3		1	1		
PX104-2-022	INS SLVG, SZ 24	A3363-2		2	2		YEL
PX104-3-022	INS SLVG, SZ 24	A3363-2		2	2		RED
PX104-4-022	INS SLVG, SZ 24	A3363-2		2	2		GRN
PX104-6-022	INS SLVG, SZ 24	A3363-2		2	2		BLU
PX104-7-022	INS SLVG, SZ 24	A3363-2		3	3		GY
PX370-3-7	INS SLVG, TEF	A3363-2		1	1		
PX829-1	PAD, TSTR MTG	A3363-2		7	7		
RC20GF102J	RES, FXD, COMP	A3363-2 A3363-2 A3363-2		1 1 1	3	R601 R604 R607	
RC20GF123J	RES, FXD, COMP	A3363-2		1	1	R621	
RC20GF183J	RES, FXD, COMP	A3363-2 A3363-2		1 1	2	R609 R610	

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 6

OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
RC20GF222J	RES, FXD, COMP	A3363-2		1		R618	
		A3363-2		1	2	R620	
RC20GF273J	RES, FXD, COMP	A3363-2		1		R602	
		A3363-2		1	2	R605	
RC20GF331J	RES, FXD, COMP	A3363-2		1		R614	
		A3363-2		1		R615	
		A3363-2		1		R619	
RC20GF390J	RES, FXD, COMP	A3363-2		1	4	R625	
		A3362-2		1	1	R600	
RC20GF470J	RES, FXD, COMP	A3363-2		1	1	R624	
RC20GF472J	RES, FXD, COMP	A3363-2		1		R603	
		A3363-2		1	2	R606	
RC20GF560J	RES, FXD, COMP	A3363-2		1	1	R623	
RC20GF561J	RES, FXD, COMP	A3363-2		1		R611	
		A3363-2		1		R612	
		A3363-2		1	3	R622	
RC20GF680J	RES, FXD, COMP	A3363-2		1	1	R617	
RG188/U	CBL, RF	CA418-9		8	8		
RV106UX8B501A	RES, VAR, COMP	A3363-2		1	1	R616	
RV111U501A	RES, VAR, COMP	A3363-2		1	1	R613	
SC131-0440BN3	SCR, MACH-UNDCT	A2844		6			
		A2845		4	10		
SC131-0440BN5	SCR, MACH-UNDCT	A2844		2	2		

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MATERIAL LIST / NUMERICAL PARTS LIST		REV.	A	B	C	D													MODEL: TTRT-2	SHEET 7 OF 10
PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS													
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT																
SC143-0440B10	SCR, MACH-NYLON	A3363-2		5	5															
SC143-0832B6	SCR, MACH-NYLON	A2843		1	1															
SCBP0440BN3	SCR, MACH	A2844		2	2															
SCBP0440BN4	SCR, MACH	A2844		4																
		A3363-2		17	21															
SCBP0440BN5	SCR, MACH	A3363-2		2	2															
SCBP0440BN12	SCR, MACH	A2845		2	2	NOTE 3														
SCFP0440BN6	SCR, MACH	A2844		2	2															
SW192-12NSJ	SW, ROTARY-TAP	A3363-2		1	1	S601														
TA111-2-2-1.00G	TAPE, URETHANE	MS4401		1	1															
TE117-48	SPACER, SLV	A2844		2	2															
TE164-7	NUT, PLN, CLINCH	PC102-3		4	4															
WA131-22	WASH., SPG, TENS	MS3370		2	2															
WI123-28	WIRE, ELEC, MAG, HT	A3223-15		30	30	SZ 28														
WI123-34	WIRE, ELEC, MAG, HT	A3223-20		54		SZ 34														
		A3223-21		60		SZ 34														
		A3223-22		60		SZ 34														
		A3223-23		60	234	SZ 34														
WI149-1	CBL, SP, SHLD/JKT	CA808-2		11	11	2/C														
WL100-8	WIRE, ELEC, BUSS	A3363-2		14	14	SZ 24														

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 8 OF 10

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
TX109	TRANSISTOR	A3363-2		1		Q601	OSC
		A3363-2		1		Q602	BUFFER
		A3363-2		1		Q603	BAL.MIX.
		A3363-2		1		Q604	BAL.MIX.
		A3363-2		1		Q605	AMPLIFIER
		A3363-2		1	6	Q606	DRIVER
TX100	TRANSISTOR	A3363-2			1	Q607	PA

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV.

A B C D

MODEL: TTRT-2

SHEET 10 OF 10

PART NO.	DESCRIPTION SPECIFICATIONS	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
S114	ZN CHROMATE PRM	MS3370					
S115	ENAM, SMOOTH GY	MS3370					
S404	IRIDITE, YEL	ALL MS-					
S809	TEST PROC	TTRT-2		1	1		

