

XMTR CONV MODULE, 8-16MC

MODEL TTRT-3

REV E

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

C734		XY702
L708	S701	XZ701
Q707	T705	Y702
R725	W702	Z701

COMPILED J. FERRERI
CHECKED L. GABEL
APPROVED T. AALTONEN
FNL APPR *L. Gabel*
ISS DATE 9-15-64

MISSING SYMBOLS

C728
R708

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**

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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			
A3364-1	PC BD, MKG	A3364-2		1	1		
BS100	SOLDER, TIN ALY	A3223-15 A3223-24 A3223-25 A3223-26 A3223-27 A3364-2					
CC20RH020C	CAP., FXD, CER	A3364-2		1	1	C717	
CC100-16	CAP., FXD, CER	A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2 A3364-2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C708 C711 C715 C716 C718 C720 C723 C725 C726 C727 C729 C730 C732	
CC100-33	CAP., FXD, CER	A3364-2 A3364-2 A3364-2 A3364-2 A3364-2		1 1 1 1 1	13	C719 C721 C722 C731 C733	
CE107-1	CAP., FXD, ELECT.	A3364-2 A3364-2		1 1	6 1	C734 C724	TANT/INS
CI115	CORE, TOROID	A3223-15		1	1		

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PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CI127-1	CORE ,TOROID	A3223-24		1	4		
		A3223-25		1			
		A3223-26		1			
		A3223-27		1			
CL140-6	COIL ,RF ,FXD	A3364-2		1	7	L702	.220MH
		A3364-2		1		L703	.220MH
		A3364-2		1		L704	.220MH
		A3364-2		1		L705	.220MH
		A3364-2		1		L706	.220MH
		A3364-2		1		L707	.220MH
		A3364-2		1		L708	.220MH
CL240-27	COIL ,RF ,FXD	A3364-2		1	1	L701	
CM15B101J	CAP . ,FXD ,MICA	A3364-2		1	2	C709	
		A3364-2		1		C712	
CM15B150J	CAP . ,FXD ,MICA	A3364-2		1	1	C713	
CM15B200J	CAP . ,FXD ,MICA	A3364-2		1	1	C706	
CM15B330J	CAP . ,FXD ,MICA	A3364-2		1	3	C713	
		A3364-2		1		C714	
		A3364-2		1		C710	
CM20C511J	CAP . ,FXD ,MICA	A3364-2		1	1	C707	
CR110-1-FREQ	CU ,QTZ ,OVEN	A2847		1	2	Y701	NOTE 2
		A2847		1		Y702	NOTE 2
OR							
CR110-3- FREQ	CU ,QTZ ,AMBIENT	A2847		1	2	Y701	NOTE 3
		A2847		1		Y702	NOTE 3

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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	A3364-2		1		C702	3.2-50UUF
		A3364-2		1		C703	3.2-50UUF
		A3364-2		1		C704	3.2-50UUF
		A3364-2		1	4	C705	3.2-50UUF
CT104-3	CAP., VAR, AIR	A3364-2		1	1	C701	
FS118-1	LATCH, SNAPSLIDE	MS3370		2	2		
FS119-2	LATCHGUIDE, SNPSL	MS3370		2	2		
FS120-1	POST, SNAPSLIDE	MS3370		2	2		
FW04HBN	WASH., FLAT	A3364-2		2	2		
FW101-1	WASH., NM, N	A3364-2		10	10		
GL102	ADHESIVE-Q DOPE	A3223-15					
		A3223-24					
		A3223-25					
		A3223-26					
		A3223-27					
HD100	HEAT SINK	A3364-2		1	1		
JJ219-18-9	JACK, TIP	MS3414		6	6		
LD1326/MS3379	CHAS, WRPARD	A2847		1	1		
LD1333/MS3370	PNL, FRONT	A2843		1	1		
LD1342/MS3414	BRKT, STAL SOC	A3364-2		1	1	XY701, 702, XZ701	
LWE04MRN	WASH., LK, EXT	A2846		2			
				13	15		

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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	A3364-2		4	4		
LWI08MRN	WASH.,LK,INT	A2843		1	1		
LWI37MRN	WASH.,LK,INT	A3364-2		1	1		
MP126-1	KNOB,THD	A2843		1	1		
MS3370	PNL,FRONT	LD1333		1	1		MACH
MS3372	BRKT,MTG,CAP.	A3364-2		1	1		
MS3377	PL,SD,L/R	A2846		2	2		
MS3379	CHAS,WRPARD	LD1326		1	1		MACH
MS3380	SHIELD,RF	A3364-2		3	3		
MS3414	BRKT,XTAL SOC	LD1342		1	1		MACH
MS3446	PL,XTAL RET.	A2847		1	1		NOTE 3
MS3560	SHIELD,RF OUT	A3364-2		1	1		
MS4401	BRK'T RET.	A2846		1	1		
NP559	PL,ID,FREQ	A2846		1	1		
NP563	PL,ID,COMM	A2846		1	1		
NT129-440-4	NUT,PLN,SPLINE	MS3379		12			
		MS3414		2			
		MS4401		4	18		
NT137-0440	NUT,PLN,HEX,N	A3364-2		10	10		
NTH0440BN6	NUT,PLN,HEX	A3364-2		11	11		
NTH2532BN10	NUT,PLN,HEX	A3364-2		1	1		
NTH3732BN18	NUT,PLN,HEX	A3364-2		1	1		

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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 OC100-2 OR OC100-3 OR OC100-4	OVEN, XTAL, 12VDC OVEN, XTAL, 24VDC OVEN, XTAL, 115VAC OVEN, XTAL, 32VDC	A2847		1	1	Z701	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	A3364-2		2	2		YEL
PX104-3-022	INS SLVG, SZ 24	A3364-2		2	2		RED
PX104-4-022	INS SLVG, SZ 24	A3364-2		2	2		GRN
PX104-6-022	INS SLVG, SZ 24	A3364-2		2	2		BLU
PX104-7-022	INS SLVG, SZ 24	A3364-2		3	3		GY
PX370-3-7	INS SLVG, TEF	A3364-2		1	1		
PX829-1	PAD, TSTR MTG	A3364-2		7	7		
				1	1		
RC20GF102J	RES, FXD, COMP	A3364-2		1		R701	
		A3364-2		1		R704	
		A3364-2		1	3	R707	
RC20GF123J	RES, FXD, COMP	A3364-2		1	1	R721	
RC20GF151J	RES, FXD, COMP	A3364-2		1	1	R725	
RC20GF183J	RES, FXD, COMP	A3364-2		1		R709	
		A3364-2		1	2	R710	

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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 RES, FXD, COMP	A3364-2 A3364-2 A3364-2		1 1 1	1 2	R718 R720	
RC20GF273J	RES, FXD, COMP	A3364-2 A3364-2		1 1	2	R702 R705	
RC20GF331J	RES, FXD, COMP	A3364-2 A3364-2 A3364-2		1 1 1	3	R714 R715 R719	
RC20GF390J	RES, FXD, COMP	A3364-2		1	1	R700	
RC20GF470J	RES, FXD, COMP	A3364-2		1	1	R724	
RC20GF472J	RES, FXD, COMP	A3264-2 A3364-2		1 1	2	R703 R706	
RC20GF560J	RES, FXD, COMP	A3364-2		1	1	R723	
RC20GF561J	RES, FXD, COMP	A3364-2 A3364-2 A3364-2		1 1 1	3	R711 R712 R722	
RC20GF680J	RES, FXD, COMP	A3364-2		1	1	R717	
RG188/U	CBL, RF	CA418-9		8	8		
RV106UX8B501A	RES, VAR, COMP	A3364-2		1	1	R716	
RV111U501A	RES, VAR, COMP	A3364-2		1	1	R713	
SC131-0440BN3	SCR, MACH-UNDCT	A2846		6			
SC131-0440BN5	SCR, MACH-UNDCT	A2847		4	10		
SC143-0440B10	SCR, MACH-NYLON	A2846		2	2		
		A3364-2		5	5		

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PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
SC143-0832B6	SCR, MACH-NYLON	A2843		1	1		
SCBP0440BN3	SCR, MACH	A2846		2	2		
SCBP0440BN4	SCR, MACH	A2846 A3364-2		4 17	21		
SCBP0440BN5	SCR, MACH	A3364-2		2	2		
SCBP0440BN12	SCR, MACH	A2847		2	2		NOTE 3
SCFP0440BN6	SCR, MACH	A2846		2	2		
SW192-12NSJ	SW, ROTARY-TAP	A3364-2		1	1	S701	
TA111-2-2-1.00G	TAPE, URETHANE	MS4401		1	1		
TE117-48	SPACER, SLV	A2846		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 A3223-24 A3223-25 A3223-26 A3223-27		30 42 42 42 42	238		SZ 28 SZ 28 SZ 28 SZ 28 SZ 28
WI149-1	CBL, SP, SHLD/JKT	CA808-2		11	11		
WL100-8	WIRE, ELEC, BUSS	A3364-2		14	14		SZ 24

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PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
TX100	TRANSISTOR	A3364-2			1	Q707	PA
TX109	TRANSISTOR	A3364-2		1		Q701	OSC
		A3364-2		1		Q702	BUFFER
		A3364-2		1		Q703	BAL.MIX.
		A3364-2		1		Q704	BAL.MIX.
		A3364-2		1		Q705	AMPLIFIER
		A3364-2		1	6	Q706	DRIVER

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			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																				
A2843		PNL ASSY,FRONT		A2846		1	1																			
A2846		TTRT-3 FNL ASSY		TTRT-3		1	1																			
A2847		PC BD/CHAS ASSY		A2846		1	1																			
A3364-2		PC BD ASSY		A2847		1	1																			
CA418-9		CBL ASSY,RF		A3364-2		1	1		W702																	
CA808-2		CBL ASSY,SP,SHLD		A3364-2		1	1		W701																	
CH314		CHART,UNIT BKDN		TTRT-3		1	1																			
CK663		DIAG,BLOCK		TTRT-3		1	1																			
CK691		DIAG,SCHEM		TTRT-3		1	1																			
PC102-3		PC BD,MECH ASSY		A3364-1		1	1																			
TZ141		XFMR,RF		A3364-2		1	1		T701		#A3223-15															
TZ150		XFMR,RF		A3364-2		1	1		T702		#A3223-24															
TZ151		XFMR,RF		A3364-2		1	1		T703		#A3223-25															
TZ152		XFMR,RF		A3364-2		1	1		T704		#A3223-26															
TZ153		XFMR,RF		A3364-2		1	1		T705		#A3223-27															

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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-3		1	1		

