

		DRTXM2 TRANSMITTER BILL OF MATERIAL							
		KIT P/N 704-DRTXM2 BOM KIT, 704-DRTXM2-1BOM RETURN AS SUB-ASSEMBLY 804-DRTXM2							
		KIT P/N 704-DRTXM2 TRANSFORMER KIT RETURN AS 804-DRTXM2 TRANSFORMER KIT							
		KIT P/N 704-DRTXM2 FILTER KIT RETURN AS 804-DRTXM2 FILTER KIT							
		FINAL PRODUCT P/N TXM0010 ORIGINAL DATE: 990310							
IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
H1	8	Right Angle LED Mount	Bivar	909-235/ Future	BRK-470-0909-235	0.14	1.12		DRTXM2
	0	0.01uf 50V Ceramic Disc Capacitor	MSR	140CD50Z6-103Z	CAP-000-.01UF-050	0.02	0.00	Obs use 030-.01uf-050	DRTXM2
C1-5,7,10-11 .15,17-18,20, 22- 28,34,38, 43- 46,49-53,1A,2A	31	0.1 UF/50V Decoupling Capacitors	AVX/Today comp	SR225E104MAA	CAP-000-.1UF-000	0.04	1.24		DRTXM2
C13,14,39-42	6	1000 pF 50V Ceramic Disc Cap	MSR	140-CD50P2-102K	CAP-000-1000PF-050	0.03	0.18		DRTXM2
C31	1	100 pF 50V Ceramic Capacitor	MSR	140-CD50N6-101K	CAP-000-100PF-050	0.04	0.04	obs part 140CD50S6-101M	DRTXM2
C35	1	470 pF 50V Ceramic disc Cap radial	MSR	140-CD50S6-471M	CAP-000-470PF-050	0.07	0.07		DRTXM2
C38	1	1UF 100V Metalized film Cap	DKY	EF1105	CAP-001-1.UF-100	0.48	0.48		DRTXM2
C33	1	3300PF Polyester Film Cap	DKY	P4557	CAP-001-3300PF-050	0.07	0.07		DRTXM2
C32	1	0.022 UF 50V Polyester Film Cap	DKY	P4586-ND	CAP-009-.022UF-050	0.08	0.08		DRTXM2
C30	1	0.056 UF Film Capacitor	DKY	P3563-ND	CAP-009-.056UF-000	0.12	0.12		DRTXM2
C54	1	0.22 UF 100V Polyester Film Cap	MSR	140-PM2A224K	CAP-009-.22UF-100	0.22	0.22		DRTXM2
C6,9	2	1000 UF/35V Electrolytic Capacitor	MALLORY	SK102M035ST	CAP-020-1000UF-035	0.47	0.94	Newark p/n 91F6288	DRTXM2
C8	1	1000 UF/50V Non-Polarized Electrolytic Capacitor	MSR	140-NPRL50 V1000	CAP-020-1000UF-050	1.32	1.32		DRTXM2
C55	1	100 UF/25V Electrolytic Capacitor	DKY	P6239	CAP-020-100UF-025	0.09	0.09		DRTXM2
C56	1	220 UF/16V Low Electrolytic ESR Capacitor	SPRAGUE	678D227M016CC3D	CAP-020-220UF-016	0.72	0.72	Newark p/n 90F7553	DRTXM2
C59,60	2	.01uf monolithic 50V cap	Newark	29F010	CAP-030-.01uf-050	0.06	0.12	repl.CAP000-.01uf-050 Disc	DRTXM2
C57	1	27 pF 500V Silver Mica Capacitor	MSR	5982-10-500V-27	CAP-040-27PF-500	0.26	0.26		DRTXM2
C37	1	470 pF 500V Silver Mica	MSR	5982-15-500V470	CAP-040-470PF-500	0.67	0.67		DRTXM2
C3A,4A,12,16, 19, 29	6	10 UF 25V Tantalum Capacitor	SPRAGUE/MSR	199D106X9025CA1	CAP-060-10UF-025	0.17	1.02	74-199D25V10	DRTXM2
C21	1	1UF 35V Tantalum Cap	DKY	P2059-ND	CAP-060-1UF-035	0.21	0.21		DRTXM2
C58	1	2-12pF NPO Trimcap	MSR	242-3610-12	CAP-070-2-12PF-000	0.25	0.25		DRTXM2
P3A	1	Single Row Female Header	DKY	929974-01-10	CON-410-0010-001	0.52	0.52	10-pin header broken in half	DRTXM2
P3B	1	Rt. Angle Single-Row Male Header	DKY	929835-01-36	CON-410-0010-002	0.68	0.68	10-pin header broken in half	DRTXM2
J1	1	SO-259 Bulkhead connector (83-1R)	Sterling	83-1R	CON-410-0083-001	1.20	1.20		DRTXM2
U12	1	MOLEX 2156 Connector	DKY	WM4620-ND	CON-410-2156-000	0.12	0.12		DRTXM2
	0	1N60 Diode	MSR	610-1N60	DIO-200-0060-000	0.24	0.00	obsolete use 610 diode	DRTXM2
D1,17	2	1N4001 Diode	MSR	583-1N4001	DIO-200-4001-000	0.06	0.12		DRTXM2
D3,5,8,12,14	5	1N4148 Diode	MSR	333-1N4148	DIO-200-4148-000	0.04	0.20		DRTXM2
Z1-6	6	1N4749A 24V Zener Diode	MSR	583-1N4749	DIO-200-4749-024	0.06	0.36		DRTXM2
D15,16	2	610 Diode	MSR	610-CDSH270	DIO-220-0000-610	0.28	0.56	repl.Diode 1N60	DRTXM2
RFC5C	1	Ferrite Bead (FB-64-101)	Amidon	FB-64-101	FER-365-0064-101	0.12	0.12		DRTXM2
RFC1A,B,C	11	Ferrite Bead (FB-75B-101)	Amidon	FB-75B-101	FER-365-0075-001	0.10	1.10		DRTXM2
F1-4	4	RXE110 Resetable Fuse	DKY	RXE110-ND	FUS-330-0110-000	0.54	2.16		DRTXM2
	0	RUE300 Resetable Fuse	DKY	RUE300-ND	FUS-330-0300-000	0.80	0.00		DRTXM2
F5	1	RUE400 Resetable Fuse	DKY	F2027	FUS-330-0400-000	0.74	0.74		DRTXM2
H2	2	Circular Finned Heatsink	DKY	HS101-ND	HEA-455-0101-000	0.70	1.40		DRTXM2
U14	1	TL074-CN	Texas Instruments	New Advantage	IC-220-0000-074	0.52	0.52		DRTXM2

IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
U8	1	TL071CP	Texas Instruments	Arrow-Semi	IC-220-0071-000	0.26	0.26		DRTXM2
U2	1	SN74HCT04N	Texas Instruments	Arrow-Semi	IC-220-0074-004	0.10	0.10		DRTXM2
U50	1	SN74HCT109N	Texas Instruments	Arrow-Semi	IC-220-0074-109	0.15	0.15		DRTXM2
U4	1	SN74HCT161	Texas Instruments	Arrow-Semi	IC-220-0074-161	0.19	0.19		DRTXM2
U15	1	MC3340P	Motorola	New Advantage	IC-220-0334-000	1.40	1.40		DRTXM2
U3,5,11	3	LM339N	National	Arrow-Semi	IC-220-0339-000	0.14	0.42		DRTXM2
U13,16	2	LM3914N	National	New Advantage	IC-220-0391-004	1.06	2.12		DRTXM2
U9	1	LT1013-CN8	Linear	DKY	IC-220-1013-008	2.30	2.30		DRTXM2
U7	1	TDA1516CQ (or TDA1516BQ)	Phillips	New Advantage	IC-220-1516-000	1.46	1.46		DRTXM2
U10	1	LM7805 (LM340T5-7805)	National	Arrow-Semi	IC-220-7805-000	0.22	0.22		DRTXM2
J1	1	Right Angle RCA Jack	MSR	16PJ097	JAC-417-0100-101	0.48	0.48		DRTXM2
P2	1	6-4 Modular RJ-11 Jack (Top Entry)	DKY	A9083-ND	JAC-417-6-4-000	0.44	0.44		DRTXM2
H3	2	Plastic Handles	Phillips	VMEX1000	KNO-496-1000-000	0.16	0.32		DRTXM2
LED1-20	20	Red T1 LED	DKY	P363-ND	LED-320-0363-000	0.12	2.40		DRTXM2
D11	1	Yellow T 1 3/4 LED	DKY	P372-ND	LED-320-0372-000	0.25	0.25		DRTXM2
D10,13	2	Red T 1 3/4 LED	DKY	P374-ND	LED-320-0374-000	0.12	0.24		DRTXM2
D2,4,6,7,9	5	Green T 1 3/4 LED	DKY	P375-ND	LED-320-0375-000	0.18	0.90		DRTXM2
Q1-4	4	MTP7N20E MOSFET [TO-220 Package]	Motorola (Newark)	MTP7N20E	MOS-210-0007-220	1.21	4.84	08TMTMP7N20E	DRTXM2
U1,6	2	ICL-7667 MOSFET Driver	Harris (Newark)	A2TICL7667CTV	MOS-210-7667-000	2.43	4.86		DRTXM2
H4	11	4-40 Nuts	Tower	4CNHMS	NUT-421-0400-000	0.01	0.11	Increased quantity	DRTXM2
H5	2	M2.5 X 45P Nut	Phillips		NUT-421-2.5 X 45P	0.02	0.04		DRTXM2
H6	4	4-40 Nuts w/Nylon insert	Tower	4CNNMS	NUT-422-0440-001	0.03	0.12		DRTXM2
H7	1	DRTXM2 Front Panel	Phillips		PAN-594-DRTXM2-000	19.60	19.60		DRTXM2
PC2	1	DRTXM2DTR PCB Board (LED Board)	Newtronix	DRTXM2DTR	PCB-518-0000-006	9.10	9.10	Quote # 2306	DRTXM2
PC1	1	DRTXM2MAIN PCB Board (Main Board)	Newtronix	DRTXM2REVB	PCB-518-0000-007	16.00	16.00	Quote # 2334	DRTXM2
H8	1	ID Plate (Blank)	Phillips	VMES5000	PLA-595-5000-000	0.75	0.75		DRTXM2
H9	1	ID Plate (HIS Logo)	Phillips	VMES5000	PLA-595-5000-001	0.15	0.15		DRTXM2
P1	1	96-Pin Right Angle Male	DKY	H5096-ND	PLU-418-0096-002	2.78	2.78		DRTXM2
R46	1	5k Sideturn Trimpot	MSR	594-63X502	POT-178-0005-000	0.81	0.81		DRTXM2
R55,58	2	20k Topturn Trimpot	Bourns/DKY	3296W-1-203	POT-177-0020-000	2.17	4.34		DRTXM2
R35	1	100k Sideturn Trimpot	MSR	594-63X104	POT-178-0100-000	0.81	0.81		DRTXM2
R37,R38,R40	3	100k 5% Resistor	MSR	291-100K	RES-100-100K1/4W-005	0.00475	0.01		DRTXM2
R52,18,19,39	9	10k 5% Resistor	MSR	291-10K	RES-100-10K1/4W-005	0.00475	0.04		DRTXM2
R7,49	2	1k 5% Resistor	MSR	291-1K	RES-100-1K 1/4W-005	0.00475	0.01		DRTXM2
R53,56	8	1M 5% Resistor	MSR	291-1M	RES-100-1M 1/4W-005	0.00475	0.04		DRTXM2
R22	1	2.2M 5% Resistor	MSR	291-2.2M	RES-100-2.2M1/4W-005	0.00475	0.00		DRTXM2
R50	1	22 ~ 5% Resistor 1/4Watt	MSR	291-22~	RES-100-22~1/4w-005	0.00475	0.00	All resistors are 1/4 Watt unless	DRTXM2
R6,R64,R65	3	22k 5% Resistor	MSR	291-22K	RES-100-22K 1/4W-005	0.00475	0.01		DRTXM2
R41	1	5.1k 5% Resistor	MSR	291-5.1K	RES-100-5.1K1/4W-005	0.00475	0.00		DRTXM2
R59	1	51 ~ 5% Resistor	MSR	291-51~	RES-100-51~1/4w-005	0.00475	0.00		DRTXM2
R32	1	680 ~ 5% Resistor	MSR	291-680~	RES-100-680~1/4W-005	0.00475	0.00		DRTXM2
R60	1	1.50k 1% Resistor	MSR	271-1.50K	RES-110-1.50K1/4W-001	0.01	0.01		DRTXM2
R54,R57,R89	4	10.0k 1% Resistor	MSR	271-10.0K	RES-110-10K1/4W-001	0.01	0.04		DRTXM2
R12,17,25,61,62	5	1.00k 1% Resistor	MSR	271-1K	RES-110-1K 1/4W-001	0.01	0.05		DRTXM2
R33	1	2.26k 1% Resistor	MSR	271-2.26K	RES-110-2.26K 1/4W-001	0.01	0.01		DRTXM2
R63	1	2.32k 1% Resistor	MSR	271-2.32K	RES-110-2.32K 1/4W-001	0.01	0.01		DRTXM2
R3	1	24.9k 1% Resistor	MSR	271-24.9K	RES-110-24.9K 1/4W-001	0.01	0.01		DRTXM2
R43-45	3	3.40k 1% Resistor	MSR	271-3.40K	RES-110-3.40K1/4W-001	0.01	0.03		DRTXM2

IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
R42,51	2	30.9- 1% Resistor (was 33.2)	MSR	271-30.9	RES-110-30.9- 1/4W-001	0.01	0.02		DRTXM2
R4	1	49.9k 1% Resistor	MSR	271-49.9K	RES-110-49.9K 1/4W-001	0.01	0.01		DRTXM2
R5	1	5.11k 1% Resistor	MSR	271-5.11K	RES-110-5.11K 1/4W-001	0.01	0.01		DRTXM2
R30	1	750.0~1% Resistor	MSR	271-750~	RES-110-750~1/4W-001	0.01	0.01		DRTXM2
R1,2	2	10 Ohm 5% 1/2 W Resistor	MSR	293-10	RES-111-10~1/2w-005	0.01	0.02		DRTXM2
R47	1	10k 6-pin SIP	MSR	264-10K	RES-120-5 X 10K-006	0.09	0.09		DRTXM2
S1P2	1	2.2k 10-pin SIP	MSR	266-2.2K	RES-120-9 X 2.2K-010	0.17	0.17		DRTXM2
H10	4	Retainer Sleeves	Phillips	VEMR3050	RET-443-3050-000	0.15	0.60		DRTXM2
H11	5	4-40 1/2" Pan Head Screw	Tower	4C50MXPS	SCR-419-0440-012	0.01	0.05	Increased quantity	DRTXM2
H12	1	6-32 1/4" Pan Head Screw	Tower	6C25MXPS	SCR-419-0632-014	0.01	0.01		DRTXM2
H13	2	M2.5 X 16 Screw	Phillips		SCR-419-2.5-16	0.026	0.05		DRTXM2
H14	4	Captive Screws	Phillips	VMES4000	SCR-419-4000-000	0.23	0.92		DRTXM2
H15	1	4 Pin socket for the oscillator	DKY	A462-ND	SOC-435-0462-000	0.3894	0.39	ECO 6-6-99 added to BOM	DRTXM2
H16	4	4-40 Nylon 3/8" Spacers (round, 1/4" diameter)	Tower	9226-N-115	SPA-441-0040-038	0.06	0.24		DRTXM2
S5	1	4T3P Slide Switch	DKY	EG1915-ND	SWI-340-0000-100	1.36	1.36		DRTXM2
S3,4	2	1-Pos DIP Switch	ALCO/ASE-22	Newark/87F1671	SWI-340-0001-000	0.96	1.92		DRTXM2
S1,2	2	8-Position DIP switch	DKY	CKN3007-ND	SWI-340-0008-000	0.80	1.60		DRTXM2
S5	1	Panel Power Switch	C&K	D102J12S205PQF	SWI-340-0200-000	1.80	1.80		DRTXM2
T4	1	Toroid (FT-50A-77)	Amidon	FT-50A-77	TOR-380-0050-077	0.63	0.63		DRTXM2
T3	1	600:600 Transformer	MSR	42TC016	TRA-210-0600-600	2.20	2.20		DRTXM2
H17	5	4-40 Lock Washers (split)	Tower	4NLMSS	WAS-490-0440-000	0.01	0.05		DRTXM2
H18	1	4-40 Solder Lug Washer	Concord 707-1604	Tropic Fast 805-120	WAS-491-0440-000	0.06	0.06	2nd source Keystone 7311	DRTXM2
W1	2	18 AWG Red-Black Zipcord Wire	Hosfelt	60-192	WIR-610-0018-000	0.09	0.18	QTY IS 14"	DRTXM2
W2	1	18 AWG Insulated Wire	Hosfelt	36-260	WIR-611-0018-000	0.12	0.12	Solid, increased quantity 10"	DRTXM2
W3	1	20 AWG Buswire	Pemco/Newark/Belde	299-20/ 36F1027WA	WIR-612-0020-000	0.10	0.10	Alpha Hook-up wire QTY 1'	DRTXM2
W4	1	24 AWG Copper Enamel Bell Wire	Marlin P Jones	7253-WI	WIR-631-0024-001	0.02	0.02		
		RETURN AS SUB-ASSEMBLY P/N 804-DRTXM2			COST OF BOM DRTXM2		109.92		
					OUTSIDE LABOR		47.00		
					TOTAL		156.92		
		TRANSFORMER COMPONENTS							
		P/N 704-DRTXM2 TRANSFORMER KIT							
		ORIGINAL DATE 990310							
IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
T1B	1	Plastic Bobbin	Eastern Comp	2616F1D	BOB-363-2616-000	0.18	0.18	CP-P26/16-/STA	DRTXM2
T1F	1	Ungapped Pot Core Ferrite 3D3 2250 material	Eastern Comp	2616PL00-3D3	FER-365-2616-000	2.62	2.62	P26/16-3D3-H	DRTXM2
S6	1	Electroswitch 12-position shaft PC-pin rotary	Electroswitch	C5P0112N-A	SWI-340-0012-000	4.37	4.37	0.125 shaft with option screw	DRTXM2
H1	1	3/8" Electrical tape 3M #1318	Elect. Insulators	3M1318x.375	TAP-490-1318-038	0.069	0.069	#1318 3/8"	DRTXM2
T2	1	Audio Transformer	Radio Shack	/11099704	TRA-210-0100-000	16.49	16.49		DRTXM2
W1	1	20 awg Copper Enamel Bell Wire	Marlin P Jones	7255-WI	WIR-631-0020-000	0.02	0.02		DRTXM2
H19	8	MOSFET Insulating pads	Newark	46F7847	INS-467-0000-220	0.22	1.76	HIS INUT.	DRTXM2
H20	1	#10 Nylon Nut	Tower	10FNHNMN	NUT-421-0010-001	0.04	0.04		DRTXM2
H21	4	6-32 Nylon Hex Nut	Tower	6CNHNMN	NUT-421-0632-001	0.02	0.08	HIS INUT.	DRTXM2
H22	4	6-32 Nuts w/Nylon insert	Tower	6CNNMS	NUT-422-0632-001	0.04	0.16		DRTXM2
H23	8	M2.9x9.5 [or M3.0x8] Oval Head self-tapping screw	Schroff [or Tower]	21100-542 [BN14067M2]	SCR-419-0100-000	0.05	0.40	order in groups of 100s	DRTXM2
H24	8	M2.5x4.5 (use M2.5 x 5)	Tropic	M2.5 x 5PFMSSTZ	SCR-419-0103-000	0.01	0.08	order in groups of 100s	DRTXM2
H25	4	6-32 1/2" Pan Head Screw	Tower	6C50MXPS	SCR-419-0632-012	0.01	0.04		DRTXM2

IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
					TOTAL BOM		278.83		
					ENG.LABOR (2HRS)				
		PARTS FOR ENGINEERING CHANGE ORDERS							
		ORIGINAL DATE 20000524 TMH							
IDENT	QTY	PART NUMBER DESCRIPTION	MFR/VNR	MFR	HIS PART NUMBER	COST	TOTAL	NOTES	PRODUCT
C57 (change)	1	24 pF 500V Silver Mica Capacitor	MSR	5982-10-500V-24	CAP-040-24PF-500	0.26	0.26	ECO T6 VSWR Nulling	DRTXM2
C101,102	2	50 pF 50V Ceramic disc Cap radial	MSR		CAP-000-470PF-050	0.07	0.14	ECO T6 Crossover Timing	DRTXM2
C103,104	2	22 pF 500V Silver Mica Capacitor	MSR	5982-10-500V-22	CAP-040-22PF-500	0.26	0.52	ECO T5 RF Filt @ Primary	DRTXM2
D101,102	2	BAT-85 Schottky Diode	Various		DIO-220-0085-000		0.00	ECO T6 Crossover Timing	DRTXM2
R101,102	2	330R 1/8 Watt 5% Resistor	MSR	299-330	RES-100-3301/8W-005	0.00475	0.01	ECO T6 Crossover Timing	DRTXM2
R103	1	5.1M 1/8 Watt 5% Resistor	MSR	299-2.2M	RES-100-5.1M1/8W-005	0.00475	0.00	ECO T4 Limit Sw Pulldown	DRTXM2
					total		0.93425		
					TOTAL BOM		#VALUE!		
					ENG.LABOR (2HRS)				
		DATE & ECN CHANGE & DESCRIPTION							
		990310-Original Start Date of BOM							
		990606-ECO added 4 Pin socket SOC-435-0462-000 & 4" nylon tie TIE-402-0440-000 to BOM							