## **SPECIFICATIONS & FUNCTIONAL DESCRIPTION**

## WT-30 - TRANSMITTER

## 1.0 DESCRIPTION

The WT-30 is a low-power three channel hand held remote control device operating at a frequency of 372.5 MHz. The signal output is a binary-coded, pulse-position type A1D modulated transmission. It is coded by the Microchip HCS201 code-hopping encoder which has a 66 bit transmission code length.

The WT-30 is compatible with the Linear's model RWR remote Access Control Receiver and 372.5 MHz Rolling Code Wayne Dalton garage door operators.

Actuating any of the three push buttons illuminates a light-emitting diode (LED) and activates the transmitter. Releasing the push-button immediately terminates transmission. Transmission time is limited to 30 seconds if button is held on.

## 2.0 FUNCTIONAL DESCRIPTION

The push-button switches, S1-3, applies power to the unit and activates L.E.D. (D1).

Digital encoding is a function of microprocessor, U1. An internally generated clock within microcontroller U1 outputs a 66 bit serial data stream that encodes the RF transmitter.

The RF oscillator Q1 functions as a tuned Colpitts oscillator / driver whose frequency control and feedback is determined by SAW resonator FR1 and R7. The frequency of oscillation is controlled by SAW resonator FR1. Q2 is the RF output amplifier. The inductive trace load E1 is configured on the circuit board as the principle-radiating element. Base bias resistors R6 & R8 in conjunction with the coupling capacitor C4 regulates the power output of the oscillator.

Because of the transmitter's small size, its radiation pattern is similar to that of an elementary dipole.

3.0 SPECIFICATIONS

Product Identification:

Encoding Technique:

Number of codes:

**RF Carrier Frequency:** 

Power Requirements:

Operating Temperature Range:

Timing:

30-second maximum transmission per activation

6 VDC - two 3 volt #2016 coin cell

lithium batteries, 12 mA maximum current - operating, < 1 uA standby

WT-30, Three channel garage door

A1D Pulse position Modulation

Keeloq Rolling Code

372.5 MHz +\- 125 KHz

Tested –30 to +70 °C

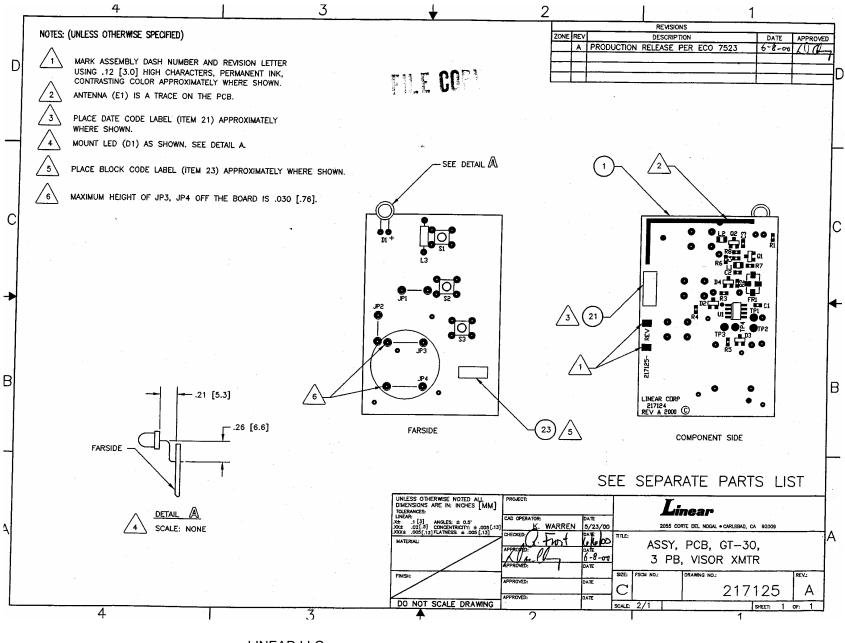
transmitter

0 to 70 °C

Size:

3.75" x 2.15" x 0.90" (approx.)

All specifications nominal unless specified.



PRINTED 05-Nov-04 04:05 PM	LINEAR LLC						LC
EFFECTIVITY DATE: ALL	SI	NGLE	LE	VEI	L	в	ILLS OF
PARENT PART: ACP00930		F/G WT-30 ERC: #		VISC RCE (			
ITEM COMPONENT PART NUMBER/ NO UM PART DESCRIPTION-REMARKS			COMM CODE				
0001 217123-02 EA ASSY,MECH,WT-30	# N	15	99	P *	Ρ	* P	1
0002 224221 EA INSTR,INSTL,WT-30	# N	15	DC	P *	Ρ	* P	1
0003 217431 EA PARTITION,6.30 X 2.25	A N	IP	DC	P 1	Ρ	* P	0.500000
0004 106403 EA BAG,POLY,4X8,1.2MIL	B 9	99	CU	P 1	Ρ	СP	1
0005 217276 EA LABEL,BLOCK CODED TX,BLAN	A N JK	IP	CE	P 1	Ρ	* P	0.115000
0006 711088 EA LABEL,UPC,SINGLE BOX,WT-3	# N	IP	CE	P *	Ρ	* P	0.100000
0007 217388 EA BOX,DISPLAY,7.60 X 6.35 X		IP	CU	P 1	Ρ	* P	0.100000
0008 811088 EA LABEL, BAR, MSTR CTN, WT-30	# N	IP	CE	P *	Ρ	* P	0.010000
0009 200900 EA BOX,SHIPPING,16.10 X 13.6		9	CU	P 1	Ρ	C P	0.010000
EA LABEL, BAR, SHPG CTN, WT-30	# N	IP	CE	P *	Ρ	• P	0.005000
EA BOX, SHIPPING, 16.85 X 14.3			CU	P 1	P	* P	0.005000
EA F/G GT-30,3 PB,VISOR XMTR		P REFERE	DC NCE (	P 1 ONLY	P	* P	0
EA BLOCK DIAGRAM, GT-30, 3 PB,			DC NCE C	P 1 ONLY	P	* P	0
			DC	P *	P	۴P	0
0993 224244 EA PROC,BLOCK CODING,WT XMTR			CE NCE C	P*	P	۶P	0

NOTES:

END OF REPORT

PRINTED 05-Nov-04 04:05 PM	LINEAR LLC
EFFECTIVITY DATE: ALL SINGL	E LEVEL BILLS OF
	MECH,WT-30 UM # SRCE CODE: P TYPE: * ABC
ITEM COMPONENT PART NUMBER/ PRODUC NO UM PART DESCRIPTION-REMARKS ERC CODE	T COMMSTSAP EXTENDED CODECYPBL QTYPER
0001 217125-02 # NP EA ASSY, PCB, WT-30	99 P * P * P 1
0002 217214-002 D NP EA CASE, FRONT, 3 PB, VISOR XMTR, PMS5C	DC P1P*P 1
0003 217215-002 D NP EA CASE, REAR, 3 PB, VISOR XMTR, PMS5C	DC P1P*P 1
0004 217216-002 E NP EA BUTTON, 3 PB, VISOR XMTR, WHITE	DC P1P*P 1
0005 217239 A NP EA CLIP, BATTERY, 2016	DC P1P*P 1
0006 214829 A 99 EA CLIP, VISOR, MULTICODE	CG P1PCP 1
0007 213691 B NP EA SCR, TF, TYP B, 4X5/16, FLH, PH, S/BLK OX	CG P1P*P 1
0008 224222 # NP EA LABEL, FCC, WT-30	CE P*P*P 1
0009 202732 C 99	AH P1PCP 2
0010 217362 B NP EA LABEL, BLOCK CODE, TX ID, CUSTOM	1,2 CE P1P*P 1
0011 202847 C 99 EA LABEL, WARR/DATE, 1 YEAR, GRAY	CE X1PCP 1
0990 217123 B NP	DC P1P*P 0 FERENCE ONLY
0991 224220 # NP	DC P * P * P 0 FERENCE ONLY
0992 216430 A NP	CE P I P * P 0 FERENCE ONLY
0993 224244 # NP	CE P * P * P 0 FERENCE ONLY
0994 217214 D NP	DC P 1 P * P 0 FERENCE ONLY
0995 217215 D NP	DC P 1 P * P 0 FERENCE ONLY
0996 217216 E NP	DC P 1 P * P 0 FERENCE ONLY
LI DUIDN/S ID/VIOOR MAIR RE.	PERENCE ONEI

NOTES:

LINEAR LLC FCC ID: EF4 ACP00930

PARENT PART: 217125-02 ASSY, PCB, WT-30	NTED 05-Nov-04 04:05 PM ECTIVITY DATE: ALL	SII	NGL	E	LEV				LLC	LS	0 F	
ERC: #     SRCE CODE: P TYPE: * A       TITEM COMPONENT PART NUMBER/ NO     PRODUCT UM PART DESCRIPTION-REMARKS ERC     CODE     CODE     C Y P B L     QTY PER       0001     2117124 EA PCB,GT-30,3 PB,VISOR XMTR     A     NP     DB     P 1 P * P     1       0002     213812 EA RCB,CGT-30,3 PB,VISOR XMTR     A     NP     EV     P * P     1       0003     225009 EA RCMATR,372.5MHZ,RO,1 PORT,SM-2 EA RES,CHTP,1/16W,680,0603,5% EA RES,CHTP,1/16W,680,0603,5% EA RES,CHTP,1/16W,680,0603,5% EA RES,CHTP,1/16W,0603,5% EA RES,CHTP,1/16W,0603,5% EA RES,CHTP,1/16W,10K,0603,5% EA RES,CHTP,1/16W,10K,0603,5% EA CAP,CER,C,50V102P,X7R,10%,0603 C1     NP     DQ     P 1 P * P     1       0010     21339-103 EA CAP,CER,C,50V102P,X7R,10%,0603 C1     A     NP     DQ     P 1 P * P     1       00209     21339-103 EA CAP,CER,C,50V102P,X7R,10%,0603 C1     A     NP     DQ     P 1 P * P     1       0031     21330-039 EA CAP,CER,C,50V103P,X7R,10%,0603 C1     A     NP     DQ     P 1 P * P     1       0112     21330-472 EA RES,CHTP,1/16W,4.7K,063,5% EA CAP,CER,C,50V13P,P,COG,.SPF,0603 C4     C     NP     DQ     P 1 P * P     1       012     21338		5 1 1					Ц	D	т т			
NO   UM   PART   DESCRIPTION-REMARKS   ERC   CODE   CODE   C V   V   P   L   QTT   PER     0001   217124   A   NP   DB   P   1   P * P   1     0002   213812   C   NP   BW   P   1   P * P   1     0003   25009   A   NP   EV   P * P * P   1     EA   RC, HC201, CODE   HOP T, SM-2   FR1   DQ   P   1   P * P   1     EA   RS, CHIP, 1/16W, 680, 0603, 5%   NP   DQ   P   1   P * P   1     EA   RES, CHIP, 1/16W, 680, 0603, 5%   R1   DQ   P   1   P * P   1     EA   RES, CHIP, 1/16W, 56K, 0603, 5%   R7   R34, 45, 5, 6   100   213383 - 563   A   NP   DQ   P   1   P * P   1     EA   RAP, CER, C, 16V104P, XTR, 10%, 0603   C1   AO   P   1   P * P   1     1010   213390   C   NP   AO   P   1 <p *="" p<="" td=""></p>	INI FARI: 21/125-02						CO	DE:	Ρ	TYPE: *		UM BC
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EA IC, HC201, CODE HOP ENCODER, SO-8 U1 EA T T T T T T T T T T T T T T T T T T		. N	P	:	DB	P 1	P	*	Ρ	1		
NO1003   225009   A   NP   EV   P   *   P   1     EARSONATE, 372.5MHZ, RO, 1   PORT, SM-2   A   NP   DQ   P   1   P   *   P   1     D004   213383-681   A   NP   DQ   P   1   P   *   P   1     EARES, CHIP, 1/16W, 680, 0603, 5%   R1   R2   DQ   P   1   P   *   P   4     EARES, CHIP, 1/16W, 10K, 0603, 5%   R3, 4, 5, 6   R3, 4, 5, 6 <td></td> <td></td> <td></td> <td></td> <td>BW</td> <td>P 1</td> <td>P</td> <td>*</td> <td>P</td> <td>1</td> <td></td> <td></td>					BW	P 1	P	*	P	1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 225009 A	. N	P	:	EV	Р*	P	*	Ρ	1		
0005   213383-822   A   NP   DQ   P 1   P * P   1     EA   RES, CHIP, 1/16W, 8.2K, 0603, 5%   R2	4 213383-681 A	. N			DQ	P 1	P	*	P	1		
EA RES, CHIP, 1/16W, 8.2K, 0603, 5% EA RES, CHIP, 1/16W, 10K, 0603, 5% EA RES, CHIP, 1/16W, 10K, 0603, 5% EA RES, CHIP, 1/16W, 10K, 0603, 5% EA RES, CHIP, 1/16W, 56K, 0603, 5% EA RES, CHIP, 1/16W, 56K, 0603, 5% EA RES, CHIP, 1/16W, 56K, 0603, 5% EA CAP, CER, C, 16V104P, X7R, 10%, 0603 C1 EA CAP, CER, C, 50V102P, X7R, 10%, 0603 C1 EA CAP, CER, C, 50V102P, X7R, 10%, 0603 C2 1010 213390 EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C1 EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C2 1011 213430-039 C NP EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C4 1012 213383-472 EA RES, CHIP, 1/16W, 4.7K, 0603, 5% EA LED, RED, TRAN, 3MM, T-1, 20 DG EA LIDDE, BAV70, DUAL, COM CATH, SOT-23 D1 EA LIDDER, MMED914, SWITCH, SOT-23 D2 EA LINDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 1017 225020 EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 1018 203687 EA XSTR, NFM, MMETH10, SOT-23 Q1, 2 1019 213107 EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 1020 103877-001 EA XSTR, NFM, MMETH10, SOT-23 Q1, 2 1032 210691 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 1022 104242 EA SWITCH, FUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1021 200691 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 1022 104242 EA SWITCH, FUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1022 104242 EA VITCH, FUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1021 200691 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 1022 104242 EA SWITCH, FUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1022 104242 EA VITCH, FUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1023 217362 EA NP CE P 1 P * P 1024 217362 EA NP CE P 1 P * P 1024 217362 EA NP CE P 1 P * P 1025 217362 EA VITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 S1, 2, 3 S1						ר ס	D	*	D	7		
EA RES, CHIP, 1/16W, 10K, 0603, 5% R3, 4, 5, 6 D007 213383-563 A NP DQ P 1 P * P 1 EA RES, CHIP, 1/16W, 56K, 0603, 5% R7 EA RES, CHIP, 1/16W, 56K, 0603, 5% R7 EA CAP, CER, C, 16V104P, X7R, 10%, 0603 C1 D010 213390 B NP AO P 1 P * P 1 EA CAP, CER, C, 50V102P, X7R, 10%, 0603 C2 D011 213390 C NP AO P 1 P * P 1 EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C3 D011 213430-039 C NP AO P 1 P * P 1 EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C4 D012 213383-472 A NP DQ P 1 P * P 1 EA RES, CHIP, 1/16W, 4.7K, 0603, 5% R8 D013 210643 D 99 EX P 1 P C P 1 EA LED, RED, TRAN, 3MM, T-1, 20 DEG D1 D014 205011-006 B 99 EX P 1 P C P 1 EA DIODE, BAV70, DUAL, COM CATH, SOT-23 D2 D015 205011-001 D 99 BF P 1 P C P 1 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 D017 225020 B NP BP P * P * P 1 EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 D018 203687 A 99 C1 P C P 2 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 D019 213107 A NP BR P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 21307 A NP BR P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D02 103877-001 E 99 EG P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D02 103877-001 E 99 EG P 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D02 103877-001 E 99 EG N 1 P C P 3 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D02 103877-001 E 99 EG N 1 P C P 3 EA XSTR, NPN, MBTH10, SOT-23 Q1, 2 D02 103877-001 E 99 EG N 1 P C P 3 EA XSTR, NPN, MBTH10, SOT-23 P C X 1 S C P 1 EA XSTR, NPN, MBTH10, SOT-23 P C X 1 S C P 1 EA XSTR, NPN, MBTH10, SOT-23 P C X 1 S C P 1 EA XSTR, NPN, MAM, 260GF, 6X6MM, UL S1, 2, 3 D02 103877-001 E 99 EG N 1 P C P 0 EA XSTR, NPX, NSM, 260GF, 6X6MM, UL S1, 2, 3 D02 103877-001 E 99 EG N 1 P C P 0 EA XSTR, NPX, STR 2 P C P 0 EA XSTR, NPX AND, 1008CS, 10% L1 D02 10327000 C X 1 S C P 1 P C	EA RES, CHIP, 1/16W, 8.2K, 0603, 5	રુ	R2		~							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					~	P 1	P	*	Ρ	4		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			P	]		P 1	Ρ	*	Ρ	1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 213419 C	N	Ρ		AO	P 1	Ρ	*	P	1		
0010   213390   B   NP   AO   P   1   P   *   P   1     EA   CAP, CER, C, 50V103P, X7R, 10%, 0603   C3   C3   AO   P   1   P   *   P   1     EA   CAP, CER, C, 50V3R9P, COG, .5PF, 0603   C4   A   NP   DQ   P   1   P   *   P   1     0012   213383-472   A   NP   DQ   P   1   P   *   P   1     EA   RES, CHIP, 1/16W, 4.7K, 0603, 5%   R8   CM   P   1   P   P   1     0013   210643   D   D9   CM   P   1   P   C   P   1     0014   205011-006   B   99   EX   P   1   P   C   P   1     0015   205011-001   D   D9   BF   P   1   P   C   P   1     0017   225020   B   NP   BP   P   P   P   2   2     0018				2	AO	P 1	Ρ	*	P	1		
EA CAP, CER, C, 50V103P, X7R, 10%, 0603 C NP AO P 1 P * P 1 EA CAP, CER, C, 50V3R9P, COG, .5PF, 0603 C4 D012 213383-472 A NP DQ P 1 P * P 1 EA RES, CHIP, 1/16W, 4.7K, 0603, 5% R8 D013 210643 D 99 CM P 1 P C P 1 EA LED, RED, TRAN, 3MM, T-1, 20 DEG D1 D014 205011-006 B 99 EX P 1 P C P 1 EA DIODE, BAV70, DUAL, COM CATH, SOT-23 D2 D015 205011-001 D 99 BF P 1 P C P 2 EA DIODE, MBD914, SWITCH, SOT-23 D3, 4 D016 109295-103 B 99 BQ P 1 P C P 1 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 D017 225020 B NP BP P * P * P 1 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D018 203687 A 99 EN P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P C P 3 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 D021 20691 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 D021 20691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" D023 217362 B NP CE P 1 P * P 1 D023 217362 B NP CE P 1 P * P 1 EA SWITCK, UH, SMD, 1008 S S S S S S S S S S S S S S S S S S				;	۵۵	D 1	D	*	D	1		
EA CAP, CER, C, 50V3R9P, COG, .5PF, 0603 C4 D012 213383-472 EA RES, CHIP, 1/16W, 4.7K, 0603, 5% EA LED, RED, TRAN, 3MM, T-1, 20 DEG D1 D014 205011-006 EA DIODE, BAV70, DUAL, COM CATH, SOT-23 D1 D015 205011-001 EA DIODE, MMBD914, SWITCH, SOT-23 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS D018 203687 EA XSTR, NPN, MMETH10, SOT-23 D018 203687 EA XSTR, NPN, MMETH10, SOT-23 D1 D019 213107 EA XSTR, NPN, MMETH10, SOT-23 D1 D1 D2 103877-001 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 D021 200691 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" D023 217362 B NP CE P 1 P * P 1 D02 D 217362 B NP CE P 1 P * P 1 D02 D 1 P * P D1 D1 D2 D D2 D	EA CAP,CER,C,50V103P,X7R,10%,	0603	C3									
EA RES, CHIP, 1/16W, 4.7K, 0603, 5% R8 P013 210643 D 99 CM P 1 P C P 1 EA LED, RED, TRAN, 3MM, T-1, 20 DEG D1 P014 205011-006 B 99 EX P 1 P C P 1 EA DIODE, BAV70, DUAL, COM CATH, SOT-23 D2 P015 205011-001 D 99 BF P 1 P C P 2 EA DIODE, MMBD914, SWITCH, SOT-23 D3, 4 P016 109295-103 B 99 BQ P 1 P C P 1 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 P017 225020 B NP BP P * P * P 1 EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 P018 203687 A 99 EN P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 P019 213107 A NP BR P 1 P * P 1 EA INDCTR, 1UH, SMD, 1008CS, 10% L1 P020 103877-001 E 99 EG P 1 P C P 3 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 P012 200691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" P022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK P023 217362 B NP CE P 1 P * P 1 P1 P *				1	AO	Р 1	Ρ	*	P	1		
0013   210643   D   99   CM   P   1   P   C   P   1     0014   205011-006   B   99   EX   P   1   P   C   P   1     0014   205011-006   B   99   EX   P   1   P   C   P   1     0015   205011-001   D   99   BF   P   1   P   C   P   2     0016   109295-103   B   99   BQ   P   1   P   C   P   1     0016   109295-103   B   99   BQ   P   1   P   C   P   1     0016   109295-103   B   99   BP   P   P   P   1     0017   225020   B   NP   BP   P   P   P   2     0018   203687   A   99   EN   P   1   P   C   P   2     0019   213107   A   NP   EG   P   1 </td <td></td> <td></td> <td></td> <td>]</td> <td>DQ</td> <td>P 1</td> <td>Ρ</td> <td>*</td> <td>P</td> <td>1</td> <td></td> <td></td>				]	DQ	P 1	Ρ	*	P	1		
0014   205011-006   B   99   EX   P   1   P   C   P   1     0015   205011-001   D   99   BF   P   1   P   C   P   2     0015   205011-001   D   99   BF   P   1   P   C   P   2     0016   109295-103   B   99   BQ   P   1   P   C   P   1     0016   109295-103   B   99   BQ   P   1   P   C   P   1     0017   225020   B   NP   BP   P   * P   * P   1     0018   203687   A   99   EN   P   1   P   C   P   2     0019   213107   A   NP   BR   P   1   P   C   P   3     0020   103877-001   E   99   EG   P   1   P   C   P   3     0021   20691   B   99   C	3 210643 D	99	9	(	СМ	P 1	Ρ	С	Ρ	1		
0015   205011-001   D   99   BF   P   1   P   C   P   2     EA   DIODE, MMBD914, SWITCH, SOT-23   D3,4	4 205011-006 B	99	9	]	EX	P 1	P	С	P	1		
EA DIODE, MMBD914, SWITCH, SOT-23 D3, 4 D016 109295-103 B 99 BQ P 1 P C P 1 EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 D017 225020 B NP BP P * P * P 1 EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 D018 203687 A 99 EN P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 D019 213107 A NP BR P 1 P * P 1 EA INDCTR, 1UH, SMD, 1008CS, 10% L1 D020 103877-001 E 99 EG P 1 P C P 3 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 D021 200691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" D022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK D023 217362 B NP CE P 1 P * P 1				ī	ਸਸ	P 1	Þ	C	D	2		
EA INDCTR, 10UH, CER FERRITE, SMD, 1008LS L2 0017 225020 B NP BP P * P * P 1 EA INDCTR, .12UH, 1300MA, 10%, AXIAL L3 0018 203687 A 99 EN P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1, 2 0019 213107 A NP BR P 1 P * P 1 EA INDCTR, 1UH, SMD, 1008CS, 10% L1 0020 103877-001 E 99 EG P 1 P C P 3 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1021 200691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X. 2" 1022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK 1023 217362 B NP CE P 1 P * P 1	EA DIODE, MMBD914, SWITCH, SOT-2	3	D3	,4								
EA INDCTR, 12UH, 1300MA, 10%, AXIAL L3 2018 203687 A 99 EN P 1 P C P 2 EA XSTR, NPN, MMBTH10, SOT-23 Q1,2 2019 213107 A NP BR P 1 P * P 1 EA INDCTR, 1UH, SMD, 1008CS, 10% L1 2020 103877-001 E 99 EG P 1 P C P 3 EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1,2,3 2021 200691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 2022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1,2,3,4 FLOOR STOCK 2023 217362 B NP CE P 1 P * P 1				1	BQ	Ρ1	Ρ	C	P	1		
A   99   EN   P   P   P   2     EA   XSTR,NPN,MMBTH10,SOT-23   Q1,2   Q1,2   Q1,2   Q1,2   Q1,2   P				I	BP	P *	Ρ	*	P	1		
0019   213107   A   NP   BR   P 1 P * P   1     EA   INDCTR, 1UH, SMD, 1008CS, 10%   L1   L1     0020   103877-001   E   99   EG   P 1 P C P   3     EA   SWITCH, PUSH, MOM, 260GF, 6X6MM, UL   S1, 2, 3	8 203687 A		9		EN	P 1	Ρ	C	2	2		
0020   103877-001   E   99   EG   P 1 P C P   3     EA   SWITCH, PUSH, MOM, 260GF, 6X6MM, UL   S1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3,4 <td></td> <td>NI</td> <td></td> <td></td> <td>BR</td> <td>P 1</td> <td>Ρ</td> <td>*</td> <td>2</td> <td>1</td> <td></td> <td></td>		NI			BR	P 1	Ρ	*	2	1		
EA SWITCH, PUSH, MOM, 260GF, 6X6MM, UL S1, 2, 3 1021 200691 B 99 CE X 1 S C P 1 EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 1022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK 1023 217362 B NP CE P 1 P * P 1		9		T	70	ר ח	П	C ·	٦ ٦	2		
EA LABEL, DATE CODE, PRODUCTION, .5"X.2" 1022 104242 E 99 ES X 1 P C P 0 FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK 1023 217362 B NP CE P 1 P * P 1	EA SWITCH, PUSH, MOM, 260GF, 6X6M	M,UL	S1							3		
1022 104242 E 99 ES X 1 P C P 0   FT WIRE, 22, SLD, BARE, BULK JP1, 2, 3, 4 FLOOR STOCK   1023 217362 B NP CE P 1 P * P 1		99 ,.5"X.2	9 2 "	(	CE	X 1	S	C :	2	1		
FLOOR STOCK 0023 217362 B NP CE P 1 P * P 1	2 104242 E		9			X 1	Ρ	CI	?	0		
	· · · ·		FLO		STOCK							
			P	(	CE	P 1	Ρ	* ]	2	1		
				j stiv								

PRINTED 05-Nov-04 04:05 PM LINEAR LLC EFFECTIVITY DATE: ALL SINGLE LEVEL BILLS OF PARENT PART: 217125-02 ASSY, PCB, WT-30 UΜ ERC: # SRCE CODE: P TYPE: \* ABC ITEM COMPONENT PART NUMBER/ PRODUCT COMM S T S A P EXTENDED NO UM PART DESCRIPTION-REMARKS ERC CODE CODE C Y P B L QTY PER 0024 224234 # NP DC P\*P\*P 1 EA KEELOQ CODES, WT SERIES 0990 217125 P1P\*P NP DC А 0 EA ASSY, PCB, GT-30, 3 PB, VISOR XMTR REFERENCE ONLY 0991 224219 # NPDC P \* P \* P 0 EA SCHEM, WT-30 REFERENCE ONLY 0992 224244 # NPCE P\*P\*P 0 EA PROC, BLOCK CODING, WT XMTRS REFERENCE ONLY 0993 224220 # NΡ DC P\*P\*P 0 EA TEST PROC, WT ROLLING CODE XMTRS REFERENCE ONLY

NOTES:

LINEAR LLC FCC ID: EF4 ACP00930