

Bill of Materials

PARTS LIST

Quan	Type	Value	Ref Designators
=====			
1	1509	UPB1509	U5
1	575EC	NE575	U2
1	612	NE612	U4
1	78LD	78L05	U3
1	8DA	TLV2361	U1
6	C	100PF	C10,C12,C16,C3,C6,C9
12	C	.01UF	C14,C26,C33,C35,C36,C37, C42,C47,C53,C55,C57,C58
3	C	.1UF	C2,C24,C27
1	C	47PF	C31
1	C	68PF	C32
4	C	.001UF	C34,C38,C48,C63
1	C	33PF	C39
7	C	*	C40,C49,C51,C59,C60,C61, C62
1	C	4.7PF	C41
1	C	1.5PF	C44

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Quan	Type	Value	Ref Designators
=====			
1	C	8.2PF	C45
2	C	2.2PF	C46,C52
2	C	10PF	C54,C56
1	C	.0039UF	C64
5	CE	10UF	C1,C13,C21,C23,C30
13	CE	1UF	C11,C15,C17,C19,C20,C25, C28,C29,C4,C5,C50,C7,C8
2	CE	100UF	C18,C43
1	CE	4.7UF	C22
6	D	TMPD4148	D1,D3,D4,D5,D6,D8
1	DV	FMMV105	D2
1	DV	FMMV109	D7
7	E	VAL	E1,E2,E3,E4,E5,E6,E7
1	JH	J1-1	J1
1	LA	.47UH	L2
2	LA	1.2UH	L3,L6

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Quan	Type	Value	Ref Designators
=====			
4	LA	*	L4,L7,L8,L9

1	LA	.18UH	L5
2	LVA	VAL	L1,L10
1	QN2212	MMUN2212	Q8
1	QNDSG	MMBFJ309	Q5
1	QNEBC	MMBR901	Q10
2	QNEBC	FMMT5179	Q6,Q9
1	QPDSG	SST175	Q1
1	QPDSG	SST177	Q3
1	QPEBC	MMBT3906	Q2
2	QPT	VP0610	Q4,Q7
2	R	39.2K	R1,R12
5	R	1K	R10,R3,R48,R5,R6
2	R	4.7M	R11,R14

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Quan	Type	Value	Ref Designators
2	R	22.1K	R13,R21
2	R	976K	R15,R32
3	R	47.5K	R16,R30,R35

2	R	30.1K	R17,R18
7	R	10K	R19,R2,R33,R39,R4,R49, R8
1	R	1.5K	R20
1	R	15K	R22
1	R	49.9K	R23
1	R	3.01K	R24
1	R	4.99K	R25
4	R	100K	R26,R31,R46,R9
3	R	3.92K	R27,R28,R29
1	R	392	R34
4	R	100	R36,R41,R44,R52
3	R	221	R37,R42,R43

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Quan	Type	Value	Ref Designators
=====			
1	R	47.5	R38
1	R	4.75K	R40
1	R	82.5K	R45
2	R	475	R47,R50
1	R	10	R51

1	R	5.62K	R53
1	R	6.81K	R7
1	RVA	100K	VR1
1	RVA	5K	VR2
1	SSD	VAL	S1
5	TP		TP1,TP2,TP3,TP4,TP5
1	Y		Y1

Total Parts: 167

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TR300 TUNE-UP INFO

Feed 1.5mv at 1kHz to J1-1(hot) and J1-2(gnd).

Ground J1-8.

Feed 9vdc to J1-11(+) and J1-10(-).

Connect a frequency counter and modulation meter from pad E7 to ground.

Connect a DC voltmeter to TP2.

Set VR1 to maximum clockwise.

Tune L1 and observe frequency counter and voltmeter. When loop is out of lock, the frequency will change but the loop voltage will be constant(about 3.3V). When the loop locks, the loop voltage will vary in an S curve either side of the unlocked value but the frequency will not change. Center the loop at this point by adjusting for the same loop voltage as existed in the unlocked condition.

Adjust L10 for correct frequency.

Adjust VR2 for +/- 3kHz deviation.