

DYNAMIC INDUSTRIES CO LTD

UNIT 2205, 22F, 57, HUNG TO RD.KLN .HONG KONG.

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ENGINEERING DEPARTMENT

ITEM NO:**MODEL NAME:- SQUART LITTLE 2 RC CAR**FREQUENCY :- **27.145MHZ**

DATE :- 22ND JAN 2002

BY: B.LEE

REV 0

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(CIRCUIT DESCRIPTION)**** CIRCUIT DESCRIPTION :-****IN TRANSMIT MODE.**

WHEN THE CONTROL KNOB IS PRESSED, A CW SIGNAL IS TRANSMITTED. THE CRYSTAL CONTROLLED OSCILLATOR Q1 OUTPUT IS COUPLED THROUGH C 2 TO THE BASE OF Q2. FROM Q2 THE SIGNAL IS FED THROUGH T1. THE LOW PASS FILTER MADE UP OF C7 & T-1 & C8 WHICH IS CONNECTED TO THE ANTENNA. THE MODULATION IS PROVIDED BY IC-1. WHEN SWITCH IS PUSHED, THE MODULATION SIGNAL WILL BE SENT TO THE BASE OF Q2 THAT WILL MODULATE THE RF WAVE DIRECTLY. ENERGY IS SUPPLIED BY A 9.V ALKALINE BATTERY.

IN RECEIVE MODE

Q1 IS THE SUPERREGENERATOR & DETECTOR.

IC-1 IS THE SIGNAL PRE-AMPLIFIER & DECODER.

QQ2/Q3/Q4/Q5/Q6/ & Q7 ARE THE MOTOR DRIVERS.

ENERGY IS SUPPLIED BY FOUR 1.5V AA TYPE ALKALINE BATTERY.

**** ANTENNA AND GROUND CIRCUITRY.**

THIS UNIT MAKES USE OF AN EXTENAL 4 1/2 -INCH ANTENNA. THE ANTENNA IS INDUCTIVELY COUPLED.

THE UNIT RELIES ON THE GROUND TRACE OF THE PRINTED CIRCUIT BOARD. NO EXTERNAL GROUND IS PROVIDED.

ENERGY IS SUPPLIED BY A 9.V ALKALINE BATTERY.

DYNAMIC INDUSTRIES CO LTD
UNIT 2205, 22F, 57, HUNG TO RD

ENGINEERING DEPARTMENT

MODEL NO:-

MODEL NAME:-

DATE:-

BY:

FREQUENCY USED:-

SQUART LITTLE 2 RC CAR

19TH JAN 2002

B.LEE

27.145MHZ

TECHNICAL DATA

A. TX SECTION

1	DC POWER SUPPLY:-	9.0VDC	(006P)/ 1604A//522/
2	DC IDLE CURRENT:-	23.000	MA DC (TYPICAL)
3	DC OPERATING CURRENT	40.00	MA DC (TYPICAL)
4	TRANSMITTED OUTPUT FREQUENCY	27.145 MHZ (+/- 2KHZ.)	CONTRILLED BY CRYSTAL
5	TRANSMITTED OUTPUT POWER	LESS THAN 80 dbuv	PER METER
6	TRANSMITTED DISTANCE	WITHIN 15 FT IN OPEN AREA. (TYPICAL)	
7	MODELATION AUDIO FREQUENCY	CONTROLLED BY TX IC-1	
8	MODULATION SYSTEM	100%	(AM)
9	MANUAL DC POWER OFF	WHEN THERE IS NO ANY OF THE CONTROL KEY PRESSED	
10	AUTO RF POWRE OUTPUT OFF	WHEN THERE IS NO ANY OF THE CONTROL KEY PRESSED	

B. RX SECTION

1	DC POWER SUPPLY	6.0VDC	4 X1.5V AAA	ALKALINE BATTERY
2	DC IDLE CURRENT	21.000	MA DC	TYPICAL
3	FREE RUN- DC CURRENT	210.00	MA DC	TYPICAL
3	MAX DC OPERATING CURRENT	1.000	AMP DC	TYPICAL
4	BATTERY OPERATING HOUR	45 MINUTES	TYPICAL	
5	RF RECEIVING FREQUENCY	27.145 MHZ		
6	MANUAL POWER OFF	YES		

TX-SIDE-- CONTROL KNOBS

A FORWARD

TO CONTROL RX UNIT GOING FORWARD.

B BACKWARD & SPIN

TO CONTROL RX UNIT GOING BACKWARD & TURN AROUND.

C. WHEN THERE IS NO CONTROL KNOB BE PRESSED, UNIT WILL STOP ALONE.