

FM TUNER FOR CAR AUDIO.

FEATURES

- Upper Side Band Super Heterodyne System.
- Intermediate Frequency : 10.7MHz.
- ANT Input Impedance : 75Ω Unbalance.
- IF Output Impedance : 300Ω Unbalance.
- Receiving Frequency : 87.5~108.0MHz.
- Operation Tuning Voltage : 1.2~8V(Ta=25℃).

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC}	10	V
Tuning Voltage	V _T	8	V
AGC Voltage	V _{AGC}	6	V
Operating Temperature Range	T _{opr}	-20~70	℃

TUNING VOLTAGE

Receiving Frequency [MHz]	MIN.	TYP.	MAX.	UNIT	Receiving Frequency [MHz]	MIN.	TYP.	MAX.	UNIT
87.5	1.2	1.5	-	V	98.0	-	3.5	-	V
88.0	-	1.6	-		100.0	-	4.0	-	
90.0	-	1.7	-		102.0	-	4.6	-	
92.0	-	1.8	-		104.0	-	5.3	-	
94.0	-	1.9	-		106.0	-	6.1	-	
96.0	-	2.0	-		108.0	-	7.0	8.0	

KCF201V/H-A

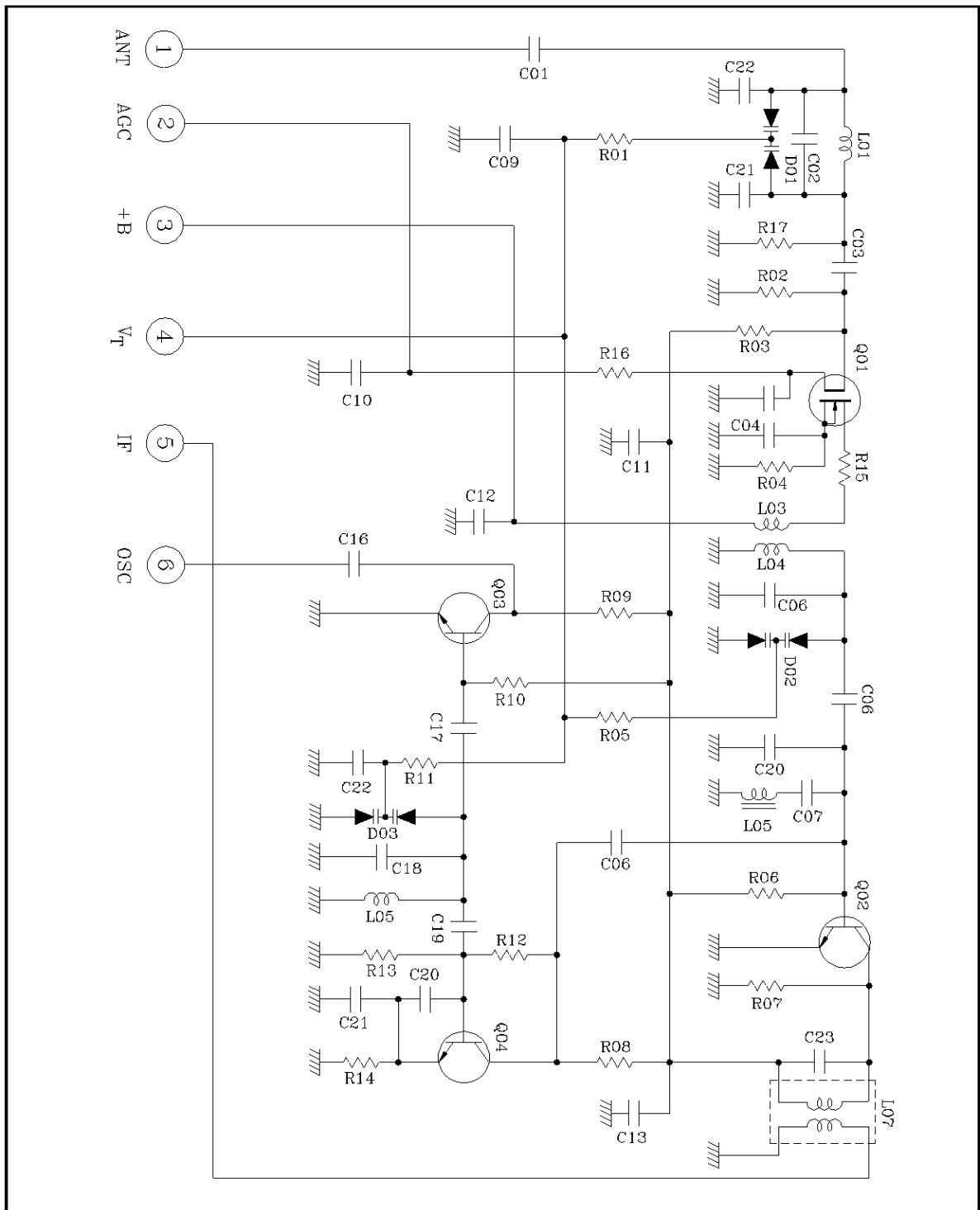
ELECTRICAL CHARACTERISTICS (Ta=25℃)

(Unless Otherwise Specified : V_{CC}=8.2V, f_i=98MHz, Δf=22.5kHz, f_m=1kHz, V_{AGC}=5V)

CHARACTERISTIC	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Power Gain		28	34	40	dB
Gain Balance		-	2.0	6.0	dB
Noise Figure		-	6.0	9.0	dB
Image Rejection		45	55	-	dB
IF Rejection		70	80	-	dB
1/2 IF Rejection		75	80	-	dB
2 × OSC Rejection		70	80	-	dB
AGC Reduction	5V→3V	-15	-20	-25	dB
	5V→0V	-35	-40	-	dB
OSC Output Voltage	1kΩ Load(rms)	100	150	200	mV
IF Band Width	-3dB	300	500	700	kHz
Current Consumption		20	30	40	mA
OSC +B Stability	STD Voltage ±10%	-	± 200	± 250	kHz
OSC Frequency Drift Against Strong Signal Input	ANT Input Level 60dBμV→120dBμV	-	± 5	± 30	kHz
Spurious		Shall be Contented FCC, CE Rule			
OSC Temperature Drift	20 ± 40℃	MAX. ± 600			kHz
		MAX. ± 6.0			dB
OSC Stop Voltage		MIN. 4.5			V

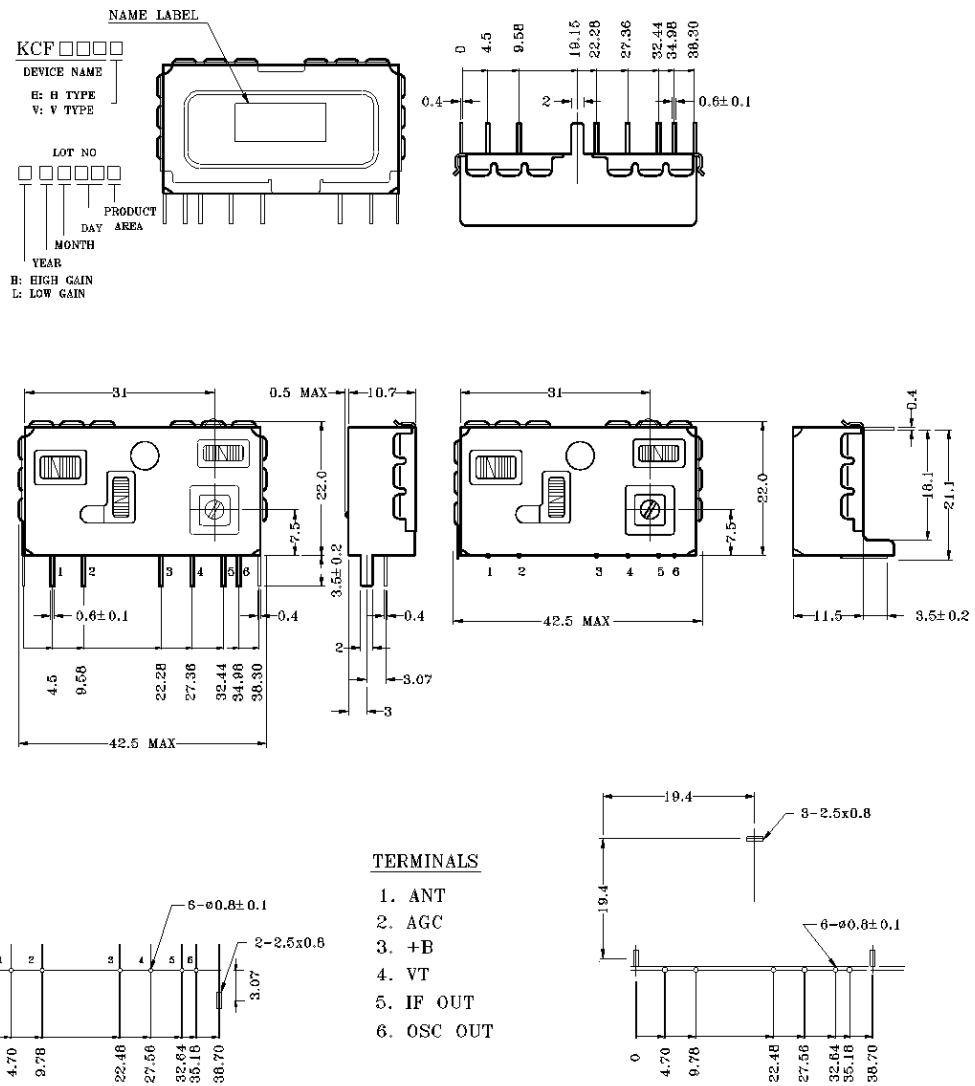
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INTERNAL CIRCUIT



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OUTLINE DIMENSIONS (Unit:mm)



V-TYPE

HOLE DIMENSIONS (TOP VIEW) *TOLERANCE : ±0.1

H-TYPE

* TOLERANCE : ±0.5