

ELECTRONIC AM/FM/MPX/NOISE CANCELLER TUNER (DBM).

### FEATURES

- Super Compact 1 Pack FM+AM (MW) Tuner.
- Ideal for Car Stereo and Car CD System.
- Upper Side Band Super Heterodyne System.
- Employment for Double Balanced Mix.
- SD/SM and IF Counter Terminal for DTS, ARI System Application.
- IF Request Composite Terminal.
- Using AGC, LO/DX Application is Possible.
- Good at Multipath Noise with Diff. Peak Det.
- Built in Noise canceller.
- Recommended Operation Voltage : 7.5~8.5V.

### MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		RATING	UNIT
Power Supply Voltage		10	V
Tuning Voltage	FM	8	V
	AM	8	V
Operating Temperature Range		-20~70	℃
Storage Temperature Range		-30~80	℃

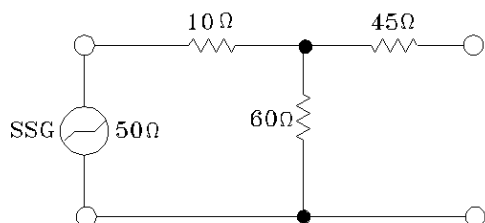
# KCC1202V

## ELECTRICAL CHARACTERISTICS (FM)

(Unless Otherwise Specified :  $V_{CC}=8.2V$ ,  $V_i=60dB\mu V$ ,  $f_i=98MHz$ ,  $\Delta f=22.5kHz$ ,  $f_m=1kHz$ )

CHARACTERISTIC	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Frequency Range		87.5	-	108	MHz
Usable Sensitivity	S/N=30dB	-	8	15	dB $\mu V$
Limiting Sensitivity	Detected Output -3dB	10	15	20	dB $\mu V$
S/N Ratio (Mono)		50	55	-	dB
Image Rejection Ratio	Limiting Sensitivity	50	60	-	dB
IF Rejection Ratio	Limiting Sensitivity	55	60	-	dB
1/2 IF Rejection Ratio	Limiting Sensitivity	70	80	-	dB
AM Rejection Ratio	AM: 400Hz, 30% Mod	45	50	-	dB
LO/DX Effect	Usable Sensitivity	14	20	26	dB
Stop Level	IF Count output level(SD ON),98.1MHz	14	20	26	dB $\mu V$
SD Band Width	60dB $\mu V$	-	$\pm 65$	$\pm 80$	kHz
Stereo Separation	$\Delta f=75kHz$ DEV.	24	28	-	dB
Stereo Lamp Sensitivity	$\Delta f=75kHz$ DEV.	-	5	-	dB $\mu V$
THD	$\Delta f=22.5kHz$ DEV.	-	0.3	1.0	%
Over Modulation THD	$\Delta f=75kHz$ DEV.	-	0.5	2.0	%
Strong Signal Input THD	120dB $\mu V$ , 1kHz 22.5kHz DEV.	-	0.5	2.0	%
OSC Output Level	1k $\Omega$ Load	150	200	-	mV <sub>rms</sub>
IF Output Level	1k $\Omega$ Load( $V_i=80dB\mu V$ )	200	360	540	mV <sub>rms</sub>
AF Output Level	1kHz, 22.5kHz DEV. 6dB $\mu V$	55	80	-	
AF Out Channel Difference		-3.0	0	+3.0	dB

## DUMMY CONDITION



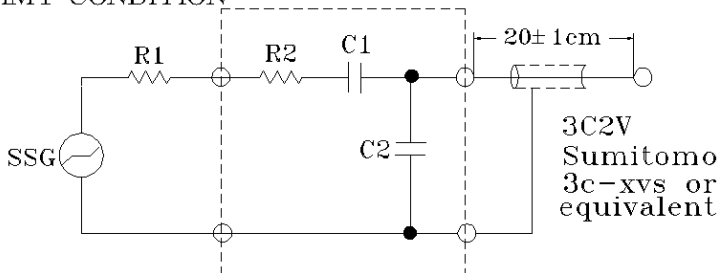
# KCC1202V

## ELECTRICAL CHARACTERISTICS (MW)

(Unless Otherwise Specified :  $V_{CC}=8.2V$ ,  $V_i=74dB\mu V$ ,  $f_i=1MHz$ ,  $Mod=30\%$ ,  $f_m=400Hz$ )

CHARACTERISTIC	TEST CONDITION	MIN.	TYP.	MAX.	UNIT (EMF)	
Maximum Sensitivity	Detected output $20mV_{rms}$	-	27	32	$dB\mu V$	
Maximum Sensitivity Balance	520~1620kHz	-	4	8	dB	
Usable Sensitivity	S/N=20dB	-	32	38	$dB\mu V$	
S/N Ratio		40	50	-	dB	
Image Rejection	$f_i=1400kHz$	45	50	-	dB	
IF Rejection	$f_i=600kHz$	50	60	-	dB	
Tweet	$f_i=900kHz$	20	30	-	dB	
Band Width	Detected Output -6dB	4	6	9	kHz	
Selectivity	$f_i=1000kHz \pm 10kHz$	30	35	-	dB	
AGC Effect	$V_i=74dB\mu V$ , AGC Level=-10dB	40	50	-	dB	
Seek Stop Level	IF Count output level(SD ON)	29	35	41	dB	
Local Effect		14	20	26	dB	
AF Output Voltage	$V_i=70dB\mu V$ , 400Hz, 30% Mod	55	80	-	mV	
IF Output Voltage	1k $\Omega$ Load (rms)	150	260	1.0	mV	
OSC Output Voltage	1k $\Omega$ Load (rms)	250	300	-	mV	
THD	MOD=30%	-	0.2	1.0	%	
Over Load Modulation THD	MOD=80%	-	0.8	2.0	%	
Strong Signal Input THD	120dB $\mu V$ , 400Hz, 30% Mod	-	0.3	2.0	%	
Fidelity	EXT. Mod 400Hz 30% Detected Output 0dB Point	100Hz	-3.0	0	+3.0	dB
		4kHz	-10	-15	-20	
OSC Temperature Drift	Temp. Cycle $20^\circ C \pm 40^\circ C$	-	20	30	kHz	

### DUMMY CONDITION



S.S.G : Standard  
Signal Generator

R1 : SSG Output  
Impedance

$R1+R2=80\Omega$

$C1=15pF$

$C2=65pF$



