



WINKLER INDUSTRIAL CO., LTD.

30/F., Amiata Industrial Building, 58-64 Lei Muk Road,
Kwai Chung, New Territories, Hong Kong
Tel: (852)24293323, 24281720 Fax: (852)24804446



ELECTRICAL SPECIFICATION

MODEL : AL100PLUS EURO

AMFM (AM&FM 40CH CB) REV:0

ELECTRICAL PERFORMANCE SPECIFICATION

(Measurement Condition)

1]	Power Source	: 13.2V DC
2]	Antenna Impedance	: 50 ohm
3]	Ref. Signal Input Level	: 1000 uV
4]	Modulation Frequency	: 1000 Hz
5]	Modulation(AM)	: 60%
	(FM)DEVIATION	: 1.2KHz
6]	Audio Output Power	: 500mW
7]	Audio Output Load	: 8 ohm
8]	Measuring Channel	: CH 18(AM) : CH 19 (FM)
9]	Temperature	: 25 °C

FREQUENCY CHART

CHANNEL	OPERATING FREQUENCY(MHz)	CHANNEL	OPERATING FREQUENCY(MHz)
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

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Date: _____ Date: _____ Date: _____



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MODEL NO:DANITA1240AMFM				REV:0
TRANSMITTER	UNIT	Nominal	Limit	samples Data
1) Frequency Tolerance at 25° C (5 Minutes after switch on)	Hz	100	±600	
2) Carrier power at No.Mod. AM (CH1 CH19 CH40) FM (CH1 CH19 CH40)	W W	0.9 3.8	0.8-1.0 3.6-4.0	
3) Spurious Emission (2 nd /3 rd /4 th /5 th /6 th /7 th /8 th /9 th /10 th) [Others] (3 rd)	dB	-96 -80	-92 -72	
4) Current Drain at No Mod. (FM) (AM)	mA	1000 600	1200 800	
5) Current Drain at 80% Mod.	mA	700	800	
6)Carrier Power Uniformity(CH.to.CH.)	W	0.2	0.4	
7) Mic. Sens. For AM 50% Mod. FM 1KHz DEV	mV	3 3	6 6	
8)Mod.THD at FM 1KHz 1.5KHz Deviation AM 1KHz 80% Modulation	%	4 4	6 8	
9) Frequency Deviation (10mV 1250Hz input)	KHz	±1.8	±1.8+10%	
10)AM Modulation(10mV 1000Hz input)	%	80	75~85	
11) FM Deviation (1V 1250 Hz input)	KHz	--	+2.5	
12)FM TX RF Output ALC (15.6V)	W	3.9	4.0	
13)FM. Hum &Noise(1KHz 1.5KHz DEV.)	dB	40	35	
14)TX VCO Voltage between CH.1 to CH.40	V	3.7-4.8	3.5~5.5	
15) Adjacent Channel Power	uW		20	
16) Unwanted amplitude modulation	%		5	

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RECEIVER	UNIT	Nominal	Limit	samples Data
1) FM Sensitivity 20dB SINAD (CH1,CH19,CH40)	uV	0.7	1.0	
2) AM Sensitivity for 12dB SINAD (CH18)	uV	0.5	1.0	
3) Squelch Sens. at Threshold (FM)	uV	0.6	1.2	
4) Squelch Sens. at Tight (FM)	uV	50	25~100	
5) Intermodulation Response	dB	60	54	
6) Adjacent Channel selectivity (± 10 KHz)	dB	65	60	
7) Max. Audio Output Power	W	2.5	2.2	
8) Audio Output Power at 10% THD	W	2.0	1.5	
9) AM THD at 500mW , 1000uV Input				
30% Mod. (SQ at MAX)	%	2	4	
50% Mod. (SQ at MAX)	%	3	6	
80% Mod. (SQ at MAX)	%	4	8	
10) FM THD at 500mW, Input 1mV 1KHz Deviation	%	3	5	
11) S+N/N Ratio at 1000uV Input (FM)	dB	40	35	
(AM)	dB	40	35	
12) Image Rejection Ratio (1 st IF)	dB	90	80	
13) Image Rejection Ratio (2 nd IF)	dB	80	75	
14) Spurious Rejection Ratio	dB	75	70	
15) Skirt Rejection Ratio (± 20 KHz)	dB	65	60	
16) Cross Modulation (± 100 KHz)	dB	80	70	
17) Current Drain at No signal	mA	200	300	
18) Current Drain at Max. output power	mA	1000	1500	
19) RX VCO Voltage between CH.1 to CH.40	V	2.8~3.8	2.5~4.5	
20) Audio out level at 1KHz 1mV input (0dB 500mW FM)	AM: 60% Mod SQ at MAX	dB	0	+/-3
	FM: 1.2KHz Dev.	dB	0	
21) Audio out level at 15.6v(0dB 13.2V)	AM	dB	0	+/-3
	FM	dB	0	+/-3

NOTE:

This model must follow ETS 300 135 specification except frequency band and TX power ,
Every Nation can choose different frequency bands and different output power

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