

GENERAL

1.1 SCOPE

This document definite the electrical specification for 2.4GHZ analogue 50 Channel Cordless telephone.

1.2 Operational Voltage

Handset : 3.6V DC 450mah

Base : 9V DC 200mA/200mA

1.3 Operational Temperature

Normal : $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

Extreme : -20°C to 50°C (Handset)

1.4 Channel Frequency (50CH)

Base TX Freq. Band (MHZ) 2403.050~2405.500

Handset TX Freq. Bans (MHZ) 2474.000~2476.450

2. Technical Specification

2-1. TRANSMITTER

		UNIT	NORMAL	LIMIT
Frequency		±KHz	2.0	<3.0
Frequency				
Circuit		PLL Frequency Synthesizer		
Spurious Emission	Talk Mode (3~6GHZ)	nW	4	<4
		nW	250	<260
	Stand-by Mode (3~6GHZ)	nW	2	Below 3GHZ
		nW	20	<25
Frequency Stability		±ppm	Within 2.5	
Modulation		Frequency Modulation(F3E)		
Adjacent Channel Power		±KHz	-3.0	
		±KHz	-5	300~3KHz
		±KHz	-3	3~5KHz
Normal Deviation		±KHz	6	<10
Residual Modulation		DB	-4.5	
Antenna Impedance		50 ohms		

2-2. RECEIVER

R E C E I V E R		UNIT	NORMAL	LIMTT
	Usable Sensitivity	dB μ V/m	40	
	Message Acceptance (At 25 dB μ V/m)	%	At Least 80	
	Adjacent Channel Selecity	dB	At Least 53	
	Co-Channel Rejection	dB	Batter Than 23	
	Inter Modulation Distortion	dB	At Least 45	
	Spurious Response Rejection	dB	At Least 55	
	Spurious Emission	nW (5~100MHz)	2	<2
		nW	20	<20
	THD	%	5	<5
		%(2nd/3rd)	3	<3
	HUM/Noise	dB (Hand set)	60	
		dB (Base set)	65	
	Threshold Of The Fiele	dB μ V/m (At in Use)	30	
		dB μ V/m (At Strenght Not)	70	
	Blocking	dB μ V/m	70	
	Antenna Impedance	50 ohms		

3-3. TELEPHONE LINE

T E L E P H O N E L I N E		UNIT	NORMAL	LIMIT
	Line Current	mA	Current Of 17 to 60	
	Off Hook DC Resistance	Ohms	480	<480
	Ring Turn On Voltage	Mohms	5	>5
	Ring Turn Off Voltage	V	>18 At 20 Hz To 54 Hz	
	Ring Sound Level	DB(A)	66	>66
	DTMF Level	$\pm$ dBm (High Group)	-4	$\pm$ 2
		$\pm$ dBm (Low Group)	-6	$\pm$ 2
		$\pm$ dBm (Twist)	2	-1
	DTMF Distortion (At 300~4KHz)	Less Than 40 dBm		
	SLR(Sending)	dB	-36	$\pm$ 5
	RLR(Receiving)	dB	-52	$\pm$ 5
	STMR(Sidctone)	dB	>14	
	Registered Recall	ms	600	$\pm$ 10 (On Flash)