

NETWORK INTERFACE COMPONENT SPECIFICATIONS

FCC ID: PJUHK250

DIGITAL SECURITY CODE:

The model "HK-250" has the circuitry for digital security code to provide protection against unintentional access. For each model, one of PJUHK250 kinds of digital security code is randomly selected and fixed in each telephone as it is manufactured.

Relay(s): BESTAR/GOOD SKY

Model: P/N:ERL-000-N002(GR-500)/P/N:ERL-000-N101(QSR-105H)

Coil-to-Contact Isolation:500 Ω ,5VDC

Opto-Isolator(s):LHEON

Model: P/N:SIC-511-N004(LTV817B)

Isolation:5 K Vrms

Varistor(s):FENG HUA

Model:P/N:ESG-000-0006(GNR07D331K)

Varistor Voltage(@ IMA):330V

Matching Transformer(s): TENPAO

Model: P/N:ETS-000-N101(LINE TRANS(T-101N)

Coil-to-Contact Isolation:AC1.2KV3MA

Fuse: SOURCE WELL

MODEL:P/N:BFS-000-N101(250V,250mA)

Rated Current: 250V,250mA

4) TELEPHONE LINE (PULSE)

DESCRIPTION	NOMINAL	LIMITS	UNITS
MAKE RATIO (at 20mA/80mA)	40	38~42	%
DIAL PULSE RATE (at 20mA/80mA)	10	±1	PPS
TIME BEAK FLASH (at 20mA/80mA)	600	±50	ms

5) TELEPHONE LINE (DTMF):

DESCRIPTION	NOMINAL	LIMITS	UNITS
HIGH GROUP (at 20mA/80mA)	-4	±2	dBm
LOW GROUP (at 20mA/80mA)	-6	±2	dBm
H/L GROUP LEVEL TWIST	2	±2	dB
FREQUENCY TOLERANCE	±1	±1.5	%

6) CID CW

DESCRIPTION	NOMINAL	LIMITS	UNITS
FREQUENCY VARIATION	Mark	1200	±12 Hz
	Space	2200	±22 Hz
BAUD RATE	1200	±12	BPS
FSK DETECTOR SENSITIVITY	Mark	-12 ~ -38	dBm
	Space	-12 ~ -39	dBm
NOISE IMMUNITY	Noise below 200Hz and 3	-20	dB
	Noise between 200Hz and	-25	dB
CAS DETECTOR	PASS		
OFF-HOOK FSK RECEPTION	PASS		

7) MEMORY AND REDIAL:

DESCRIPTION	NOMINAL	LIMITS	UNITS
DIGIT OF REDIAL	32		DIGIT
DIGIT OF MEMORY	16		DIGIT
MEMORY NUMBER	20		Location

8) RINGER I/P (Ringer patter 2 second ON and 4 second off)

DESCRIPTION	NOMINAL	LIMITS	UNITS
a) RINGER DETECTOR LEVEL	30	30 to 35	Vr.m.s
b) NOT RINGER LEVEL	25 ~ 30	20 ~ 30	Vr.m.s
c) RINGER FREQUENCY	15 to 75	15 to 75	Hz
d) RINGER OUTPUT LEVEL (1 foot)	H	80dBA	>70dBA dBA
	L		dBA
e)	2 SECOND ON AND 4 SECOND OFF		

9) OTHER:

DESCRIPTION	NOMINAL	LIMITS	UNITS
SAFE IMMUNITY (1700V DC 0.5mA 1 Second)	PASSED		
ACOUSTIC EST TOLR : 0 kft (at Normal Volume)	≈40	≈53	dB
ACOUSTIC EST ROLR : 0 kft (at Normal Volume)	≈41	≈51	dB
ACOUSTIC EST SOLR : 0 kft (at Normal Volume)	≈3	≈99.9	dB
TRANSMITT FREQUENCY RESPONSE	PASSED		
RECEIVE FREQUENCY RESPONSE	PASSED		

NOTE: Volume High Low Difference ≈12dB

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HANDSET

1) TRANSMITTER:

DESCRIPTION		NOMINAL	LIMITS	UNITS
TX POWER	3.8V power supply	0	± 3	dBm
	between Channel	± 2	± 3	dB
	voltage from 3.4V to 4.2V	± 2	± 3	dB
FREQUENCY TOLERANCE		± 4	± 8	PPm
TX Code DEV		18	± 3	kHz
TX Audio DEV (I/P 1kHz 13mV)		7	± 0.2	kHz
TX Audio DEV variation of difference between channel		± 0.2	± 0.3	kHz
Max TX Audio DEV (I/P 2.5kHz 130mV)		15	18	kHz
Tx modulation Distortion		≈ 3	≈ 8	%

2) RECEIVER:

DESCRIPTION		NOMINAL	LIMITS	UNITS
12dB SINAD SENSITIVITY		< -110	< -110	dBm
Audio O/P Distortion		≈ 3	≈ 5	%
Audio O/P Level (7kHz DEV)		320	± 30	mV
Audio O/P S/N Ratio		> 55	> 50	dB

3) POWER CONSUMPTION

DESCRIPTION		NOMINAL	LIMITS	UNITS
ST-BY MODE CURRENT	AVERAGE	< 5	< 5	mA
TALK MODE CURRENT	MID-Volume	65	85	mA

4) LOW BATTERY DETECT VOLTAGE

DESCRIPTION		NOMINAL	LIMITS	UNITS
ALARM VOLTAGE (TALK MODE)		3.3	3.1-3.5	V
NOT ALARM VOLTAGE		3.6	3.45-3.65	V

BASE UNIT

1) TRANSMITTER:

DESCRIPTION		NOMINAL	LIMITS	UNITS
TX POWER		0	± 3	dBm
FREQUENCY TOLERANCE		± 4	± 8	PPm
TX Code DEV		18	± 3	kHz
TX Audio DEV (I/P 1kHz 250mV)		8	± 0.2	kHz
TX Audio DEV variation of difference between channel		± 0.2	± 0.3	kHz
Max TX Audio DEV (I/P 2.5kHz 2.5V)		18	23	kHz
Tx modulation Distortion		≈ 3	≈ 8	%

2) RECEIVER:

DESCRIPTION		NOMINAL	LIMITS	UNITS
12dB SINAD SENSITIVITY		< -110	< -110	dBm
Audio O/P Distortion		≈ 3	≈ 8	%
Audio O/P Level (7kHz DEV)		400	± 60	mV
Audio O/P S/N Ratio		> 50	> 50	dB

3) POWER CONSUMPTION:

DESCRIPTION		NOMINAL	LIMITS	UNITS
ACTIVE CURRENT (DC JACK)		120	± 10	mA

FREQUENCY TABLE

Item	Handy. Tx(MHz)	Handy. Rx(MHz)		Base. Tx(MHz)	Base. Rx(MHz)
1	2474.000	2403.05		2403.05	2474.000
2	2474.050	2403.1		2403.1	2474.050
3	2474.100	2403.15		2403.15	2474.100
4	2474.150	2403.2		2403.2	2474.150
5	2474.200	2403.25		2403.25	2474.200
6	2474.250	2403.3		2403.3	2474.250
7	2474.300	2403.35		2403.35	2474.300
8	2474.350	2403.4		2403.4	2474.350
9	2474.400	2403.45		2403.45	2474.400
10	2474.450	2403.5		2403.5	2474.450
11	2474.500	2403.55		2403.55	2474.500
12	2474.550	2403.6		2403.6	2474.550
13	2474.600	2403.65		2403.65	2474.600
14	2474.650	2403.7		2403.7	2474.650
15	2474.700	2403.75		2403.75	2474.700
16	2474.750	2403.8		2403.8	2474.750
17	2474.800	2403.85		2403.85	2474.800
18	2474.850	2403.9		2403.9	2474.850
19	2474.900	2403.95		2403.95	2474.900
20	2474.950	2404		2404	2474.950
21	2475.000	2404.05		2404.05	2475.000
22	2475.050	2404.1		2404.1	2475.050
23	2475.100	2404.15		2404.15	2475.100
24	2475.150	2404.2		2404.2	2475.150
25	2475.200	2404.25		2404.25	2475.200
26	2475.250	2404.3		2404.3	2475.250
27	2475.300	2404.35		2404.35	2475.300
28	2475.350	2404.4		2404.4	2475.350
29	2475.400	2404.45		2404.45	2475.400
30	2475.450	2404.5		2404.5	2475.450
31	2475.500	2404.55		2404.55	2475.500
32	2475.550	2404.6		2404.6	2475.550
33	2475.600	2404.65		2404.65	2475.600
34	2475.650	2404.7		2404.7	2475.650
35	2475.700	2404.75		2404.75	2475.700
36	2475.750	2404.8		2404.8	2475.750
37	2475.800	2404.85		2404.85	2475.800
38	2475.850	2404.9		2404.9	2475.850
39	2475.900	2404.95		2404.95	2475.900
40	2475.950	2405		2405	2475.950