DETAILED TECHNICAL SPEC

MODEL: H61056

DOCUMENT NO : H61056 DTS_Ver1.0

D	et	ai	lec	l	Te	ch	nica	18	Бре	eci	fica	ati	01	n
_	-	-	_	_										

Model: H61056 Issue: 1.0

Changing History

Rev	Changing Details	Release
		Date
1.0	1st Release	22 Sep 2006

Detailed Technical Specification

Model: H61056

I. STANDARD MEASUREMENT CONDITION: Issue: 1.0

A.	Standard DC Power			
	4 AAA internal batte	erie	es	6.0 Vdc
В.	Test Temperature	25°C ±5°C		
C.	Standard Audio Frequency	1KHz		
D.		1mV		
E.	Standard Ref. Modulation			
	Audio			± 1.5 KHz
	CTCSS			\pm 0.4 KHz
F.	Standard Ref. Audio Output	t		4 OmW
G.	Standard Ref. Audio Load	@		
	SPEAKER			24 Ω Resistive
Η.	Antenna Impedance			50 Ω
I.	Measurement Channel	CH	1	462.56250MHz
		CH	14	467.71250MHz
J.	Channel Assignment			
	CH $1 = 462.56250 \text{MHz}$		15=	462.55000MHz
	2 = 462.58750MHz		16=	462.57500MHz
	3 = 462.61250MHz		17=	462.60000MHz
	4 = 462.63750MHz		18=	462.62500MHz
	5 = 462.66250MHz		19=	462.65000MHz
	6 = 462.68750MHz		20=	462.67500MHz
	7 = 462.71250MHz		21=	462.70000MHz
	8 = 467.56250MHZ		22=	462.72500MHZ
	9 = 467.58750MHZ			
	10= 467.61250MHZ			
	11= 467.63750MHZ			
	12= 467.66250MHZ			
	13= 467.68750MHZ			
	14= 467.71250MHZ			

Model: H61056 Issue: 1.0

```
K. CTCSS Tone Frequencies
       CH1 = 67.0Hz
                             34 = 218.1Hz
                                                                     67 = 116.75 + 183.0Hz
          2 = 71.9Hz
                              35 = 225.7Hz
                                                                     68 = 116.75 + 189.5Hz
          3 = 74.4Hz
                             36 = 233.6Hz
                                                                     69 = 120.875 + 148.75Hz
          4 = 77.0Hz 37 = 241.8Hz
                                                                     70 = 120.875 + 154.0Hz
          5 = 79.7Hz 38 = 250.3Hz
                                                                     71 = 120.875 + 159.5Hz
          10 = 94.8Hz 43 = 109.0 + 154.0Hz
                                                                    76 = 120.875 + 189.5Hz
        17 = 118.8Hz 50 = 112.875 + 138.875Hz 83 = 125.125 + 189.5Hz
         18 = 123.0Hz 51 = 112.875 + 143.75Hz 84 = 129.5 + 159.5Hz
         19 = 127.3Hz 52 = 112.875 + 148.75Hz 85 = 129.5 + 165.0Hz
        20 = 131.8Hz 53 = 112.875 + 154.0Hz 86 = 129.5 + 170.875Hz
21 = 136.5Hz 54 = 112.875 + 159.5Hz 87 = 129.5 + 176.875Hz
22 = 141.3Hz 55 = 112.875 + 165.0Hz 88 = 129.5 + 183.0Hz
         23 = 146.2Hz 56 = 112.875 + 170.875Hz 89 = 129.5 + 189.5Hz
         24 = 151.4Hz 57 = 112.875 + 176.875Hz 90 = 134.125 + 165.0Hz
        24 = 151.4Hz 57 = 112.875 + 176.875Hz 90 = 134.125 + 165.0Hz 25 = 156.7Hz 58 = 112.875 + 183.0Hz 91 = 134.125 + 170.875Hz 26 = 162.2Hz 59 = 112.875 + 189.5Hz 92 = 134.125 + 176.875Hz 27 = 167.9Hz 60 = 116.75 + 143.75Hz 93 = 134.125 + 183.0Hz 28 = 173.8Hz 61 = 116.75 + 148.75Hz 94 = 134.125 + 189.5Hz 29 = 179.9Hz 62 = 116.75 + 154.0Hz 95 = 138.875 + 170.875Hz 30 = 186.2Hz 63 = 116.75 + 159.5Hz 96 = 138.875 + 176.875Hz 31 = 192.8Hz 64 = 116.75 + 165.0Hz 97 = 138.875 + 183.0Hz 32 = 203.5Hz 65 = 116.75 + 170.875Hz 98 = 138.875 + 189.5Hz 32 = 203.5Hz 65 = 116.75 + 170.875Hz 98 = 138.875 + 189.5Hz
         33 = 210.7Hz 66 = 116.75 + 176.875Hz 99 = 143.75 + 176.875Hz
                                                                     00 =
                                                                                0.0Hz
```

L. Measurement CTCSS Frequency CH 12 (100 Hz)

Model: H61056 Issue: 1.0

II. GENERAL SPECIFICATION:

	: All test are without CTCSS unless RECEIVER: 1. SENSITIVITY	specified UNIT	NOMINAL	LIMIT
	WITHOUT CTCSS (12 dB SINAD)	dBm dBm	-119 -117	-117 -115
	2. COUPLING SENSITIVITY (by QA fixture)	dBm		TBD
	3. RATED AUDIO OUTPUT @ 5% THD (24R LOAD)	mW	60	50
	4. MAXIMUM S/N RATIO @ 1 mV	dB	42	38
	5. SQUELCH a) Without CTCSS	dB SINAD	10	6-13
	b) With CTCSS	dB SINAD	10	6-13
	6. AUDIO FREQUENCY RESP. @ 500 HZ @ 2500 HZ	dB dB	4 -11	±2 ±2
В.	TRANSMITTER : 1. CARRIER POWER	dBm	19.3	LIMIT 24.5
В.		dBm		
В.	1. CARRIER POWER	dBm		24.5
В.	 CARRIER POWER RADIATED POWER (by QA fixture) 	dBm dBm ±HZ	19.3	24.5 TBD
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA 	dBm dBm ±HZ ±KHz	19.3 300 2.1	24.5 TBD 1000
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA for Casing & QA AUDIO FREQUENCY RESPONSE @ 500 HZ 	dBm dBm ±HZ ±KHz ±KHz dB	19.3 300 2.1 2.1 -7.5	24.5 TBD 1000 2.0-2.2 = 2.2</th
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA for Casing & QA AUDIO FREQUENCY RESPONSE @ 500 HZ @ 2500 HZ 	dBm dBm ±HZ ±KHZ ±KHZ dB dB	19.3 300 2.1 2.1 -7.5	24.5 TBD 1000 2.0-2.2 = 2.2<br ±2 ±2
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA for Casing & QA AUDIO FREQUENCY RESPONSE @ 500 HZ @ 2500 HZ AUDIO DISTORTION @1.5 KHz DEV. 	dBm dBm ±HZ ±KHz ±KHz dB dB dB	19.3 300 2.1 2.1 -7.5 -2	24.5 TBD 1000 2.0-2.2 = 2.2<br ±2 ±2
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA for Casing & QA AUDIO FREQUENCY RESPONSE @ 500 HZ @ 2500 HZ AUDIO DISTORTION @1.5 KHz DEV. HUM AND NOISE RATIO 	dBm dBm ±HZ ±KHZ ±KHZ dB dB dB	19.3 300 2.1 2.1 -7.5 -2 3	24.5 TBD 1000 2.0-2.2 = 2.2<br ±2 ±2 5 35
В.	 CARRIER POWER RADIATED POWER (by QA fixture) CARRIER FREQ. TOLERANCE MODULATION LIMITING (@150mV I/P) for PCBA for Casing & QA AUDIO FREQUENCY RESPONSE @ 500 HZ @ 2500 HZ AUDIO DISTORTION @1.5 KHz DEV. HUM AND NOISE RATIO MIC SENS. FOR 10mV 	dBm dBm ±HZ ±KHZ ±KHZ dB dB dB	19.3 300 2.1 2.1 -7.5 -2 3 38 1.2	24.5 TBD 1000 2.0-2.2 = 2.2<br ±2 ±2 ±2 5 35 0.9~1.4

Detailed Technical Specification Model: H61056

Model: H61056	Iss	sue: 1.0	_
12. MIC sens to activate TX in vox mode a) at vox sens level 1 b) at vox sens level 2 c) at vox sens level 3	mv mv mv	13 9 4	±2 ±2 ±2
III. POWER SUPPLY :	UNIT	NOMINAL	LIMIT
1. BATTERY LIFE (5:5:90 RATIO)	HR		>24
2. STDBY CURRENT	mA	25	40
3. CURRENT DRAIN @ RATED AUDIO @ RATED TX @ POWER SAVE @ KEEP ALIVE (unit off)	mA mA mA uA	100 350 10 150	150 400 15 600
4. BATTERY LOW INDICATION			
	V	4.8	±0.1
	V	4.6	±0.1
Flash	V	4.3	±0.1