

GENERAL SPECIFICATION

MODEL:TCC150 SERIES

NTP-6210C

ISSUED NO.: 01

ISSUED BY :

APPROVED BY:

MEASUREMENT CONDITION:

1. Standard Voltage:

Handset unit	DC	3.8	V	+/- 0.1	V
Base unit	AC	110	V	+/- 10%	V
	DC	9V		200	mA

2. Temperature: 25 °C +/- 5 °C

3. Standard Modulation on SSG:

Modulation Frequency	<u>1.0 KHz</u>
Modulation Deviation (902.950MHz)	<u>5.0 KHz</u>
Modulation Deviation (926.950MHz)	<u>5.0 KHz</u>

4. Bell Signal Frequency: 25 Hz (70 VR.M. S.)

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HANDSET

1) TRANSMISSION:

DESCRIPTION	Units	Nominal	Limit	Remark
A) Carrier Power (50Ω Load)	dBm	0	≤ 5	IN CH20
B) TX Frequency	MHz	926.950	± 800Hz	
C) Mic Deviation at 15mVrms I/P (CH20)	KHz	5	± 0.3	Filter is 15K
D) Max Deviation (I/P 150mv) (CH20)	KHz	14	< 18	Filter is 15K
E) Data Deviation at (Test mode) (CH20)	KHz	12	9 ~ 18	Filter is 15K
F) Deviation Difference (CH1~CH40)	KHz	0.1	<0.5	
G)CarrierPower Difference (CH1~CH40)	dB	0.2	<0.5	

2) RECEIVER:

DESCRIPTION	Units	Nominal	Limit	Remark
A) 2dB SINAD Sensitivity (SSG 1.0KHz, DEV 5KHz)	dBuVemf dBm	0 -113	≤3 ≤-110	
B) Data Sensitivity(SSG 99dBuVemf)	KHz	0.8	0.5~1.5	
C) S/N Ratio at Speaker Output (SSG 0.0dBm)	dB	55	>50	
D) Distortion (SSG. output 99 dBuVemf)	%	2	≤5.0	
E) Adjacent Channel Selectivity	dB	50	>42	
F) Sensitivity difference (CH1~CH40)	dB	0	<3	
G) Speaker O/P level (6KHz Dev)	mVrms	150	± 20	
H) Noise Squelch (Test Mode) (DC level change from low to high)	dB		+4/-6	12dB SINAD LEVEL

4) POWER CONSUMPTION:

DESCRIPTION	Units	Nominal	Limit	Remark
A) TALK mode Current (50 Ohm Load) 3.8V POWER	mA	80	≤88	
B) STAND-BY mode 3.8V POWER Current	Low	1	< 1.5	
	Hi	20	< 30	
	AVG	3.5	< 4.0	
C) Sleep mode current	uA	500	900	
D) Battery Low	V	3.3	± 0.15	

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BASE UNITS

1) TRANSMISSION:

DESCRIPTION	Units	Nominal	Limit	Remark
A) Carrier Power CH20	dBm	0	≤5	
B) Transmit Frequency	MHz	902.950	± 800Hz	
C) Nominal Deviation -15dBm,1KHz) (CH20)	KHz	5	± 0.3	Filter is 15K
D) Max Deviation (5dBm, 1KHz) (CH20)	KHz	14	≤18	Filter is 15K
E) Data Deviation	KHz	12	9 ~ 18	Filter is 15K
F) Carrier Power Difference (CH1~CH15)	dB	0.2	< 0.5	
G) Deviation Different (CH1~CH15)	KHz	0.1	< 0.3	

2) RECEIVER:

DESCRIPTION	Units	Nominal	Limit	Remark
A) Sensitivity at 12 SINAD	dBuVemf dBm	-3 -116	≤ 0 ≤ -113	
B) Data Sensitivity	khz	0.8	0.5~1.5	
C) Tele Line Output (600Ohm,5.0KHz Dev)	mVrms	650	±100	
D) Distortion (SSG 0.0dBm)	%	2.0	≤ 5.0	
E) S/N Ratio (SSG 0.0dBm)	dB	50	> 45	
F) Adjacent Channel Selectivity	dB	50	> 42	
G) Sensitivity Difference (CH1~CH15)	dB	0	≤ 3	
H) Noise Squelch (Test Mode) (DC level change from low to high)	dB		+4/-6	12dB SINAD LEVEL

4) POWER CONSUMPTION:

DESCRIPTION	Units	Nominal	Limit	Remark
A) TALK mode (DC 9V)	mA	100	<150	
B) Stand-By mode (DC 9V)	mA	40	< 60	
C) Charge Current to 3.6v Battery	mA	50	± 10	

5) RINGER STATE:

DESCRIPTION	Units	Nominal	Limit	Remark
A) Ringer Current (AC90V, 25/50Hz)	mA	1	<1.5	
B) Ringer Sensitivity	Vrms	25	< 30	
C) Ringer Impedance(AC30V , 25/50Hz)	KΩ	20	3 ~ 40	
D) Ringer level (50CM)	HI VOL	dB	76	> 73
	LO VOL.	dB	66	> 63

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6) TELEPHONE SIGNAL(DTMF/TONE/ PULSE):

DESCRIPTION	Units	Nominal	Limit	Remark
A) DTMF Frequency Error	%	1	± 1.3	
B) DTM FLEVEL LOW Group HIGH Group	dBm.	-7 -5	± 2 ± 2	
C) Pre-Emphasis (Twist)	dB	2.0	1.0~3.0	
D) Pulse M/B ratio	%	40	38 ~ 42	
E) Pusle rate	PPS	10	± 1	

7) FLASH TIME :

DESCRIPTION	Units	Nominal	Limit	Remark
A) Flash time	mS	600	± 50	

11)OTHER-TELEPHONE LINE:

DESCRIPTION		Units	Nominal	Limit	Remark
A) Leakage Current (50V)		uA	0	<4	
B) DC Characteristic 8.5V		mA	80	>60	
6.5V			40	>35	
C) DC resistance in Off-hook	Without “R”	Ω	250	≤300	Loop Current 25mA
	With “R”	Ω	300	≤350	Loop Current 25mA

9) OTHER-FUNCTIONS:

DESCRIPTION	Units	Nominal	Limit	Remark
A) Security Code		--	Confirm	
B) Clear Down		--	Confirm	
C) Acoustic Line (600Ω) SLR 0Kft RLR STMR	dB	-46 46 10	-45 ~ -48 44 ~ 48 > 5	Vol. Lo
SLR 9Kft RLR STMR	dB	- 42 48 10	-40 ~ -44 46 ~ 50 > 5	REFERENCE R&D
SLR 15Kft RLR STMR	dB	-38 51 10	-36 ~ -42 50 ~ 54 > 5	SAMPLE
D) Receive Volume Difference	dB	13	12-16	
E) Receive & sending Distortion	%	3	≤5	
F) Return loss	dB	16	≥11	
G) Earphone Receive Volume Difference	dB	9	8 ~ 12	32Ω load
H) Earphone Receive Volume level	dB	41	± 2	Vol. Lo
I) Receive & sending responses	Fail/pass	Pass	Confirm	

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10) SAFETY

DESCRIPTION	Units	Nominal	Limit	Remark
A) Electrical & Insulation Strength AC Test Voltage 1.0 mA 3 Second	KV	1.2	No Breakdown	

11)FSK CALL ID AND CALL WAITING TEST:

DESCRIPTION		Units	Nominal	Limit	Remark
A) FSK signal frequency	Mark	Hz	1200	± 12	
	Space	Hz	2200	± 22	
B) Baud Rate		BPS	1200	± 12	
C). FSK Detector level (HI LEVEL) S/N Set 15dB	Mark	dBm	- 2	≤ 0	
	Space	dBm	- 2	≤ 0	
C) FSK detector sensitivity S/N Set 15dB	Mark	dBm	- 42	- 40 ~ - 45	
	Space	dBm	- 42	- 40 ~ - 45	
E) Noise level signal 200Hz ~ 300Hz		dBm	-35	≥ - 40	
F) S/N Sensitivity FSK level -40dBm		dB	11	- 10 ~ - 12	
G) CAS Tone detector sensitivity		dBm	-38	- 36 ~ - 40	
H) CAS Tone detector at handset receiver		dB	80	< 95	
I) Duration time		mS	80	75 ~ 85	

12) OTHER TEST :

DESCRIPTION		RESULT	Remark
A) Store test temperature 20℃ humidity 60% time 6 ~ 8 hour		FUNCTION PASS	
B) Telephone aging test time 48 ~ 72hour		FUNCTION PASS	
C) Telephone drop test (six side)	B/U 0.72m	FUNCTION PASS	
	H/S 1.52m		
D) Carton packing drop test (six side and one corner high 1.5m)		FUNCTION PASS	