

S p e c i f i c a t i o n s

TO

Messrs SK Teletech

SUBJECT

SKC-202

16 , February , 2001

番号	DESCRIPTION 名 称	DRAWING No. 図 番	NUMBER 部数	REMARK 備 考
1	Specification	N8-SA04-M02E	1	
2	Packing	N8-SA04-H00	1	
3	Outside Appearance Drawing	N8-SA04-H01	1	
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NIPPON ANTENNA CO., LTD.

APPROVED	INSPECTED	DESIGNED
M. Makino 16. FEB. '01	Y. Ozawa 16/2/'01	A. Mamiya 16. Feb. '01

RETRACTABLE ANTENNA PERFORMANCE SPECIFICATION

1. DESCRIPTION : Retractable whip type handportable cellular antenna
2. MODEL NAME : SKC-202
3. APPEARANCE AND ARCHITECTURE : Refer drawing of appearance
4. RETRACTABLE ANTENNA ELECTRICAL PERFORMANCE
 - 4-1. OPERATING FREQUENCY RANGE
Transmitter : 824 ~ 849 MHz
Receiver : 869 ~ 894 MHz
 - 4-2. IMPEDANCE : Nominal 50 OHMS
 - 4-3. VSWR : This is data for reference due to under adjustment for protection now.
Install to your test fixture with using frequency band.
Extended - 2.5 MAX.
Retracted - 5.5 MAX.
 - 4-4. MAXIMUM ANTENNA GAIN : This is data for reference due to under adjustment for protection now.
Install to your test fixture with using frequency band.
Extended - 2.8 dBd MAX.
Retracted - 5.1 dBd MAX.

5. MECHANICAL CHARACTERISTICS

5-1. EXTENSION AND RETRACTION FORCE OF ANTENNA ELEMENT

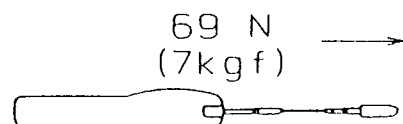
INITIAL Holder - Top plug : 2N ~ 6N(204gf ~ 612gf)
 Holder - Stopper : 2N ~ 6N(204gf ~ 612gf)
 Sleeve part : 0.5N ~ 5N(49gf ~ 510gf)

AFTER 10,000 CYCLES

Holder - Top plug : 1N ~ 6N(102gf ~ 612gf)
Holder - Stopper : 1N ~ 6N(102gf ~ 612gf)
Sleeve part : 0.3N ~ 5N(30gf ~ 510gf)

5-2. PULLING FORCE

69N(7kgf) of pullig force to be added for 5 sec. for the direction of axial under condition of antenna element fully extended. after the test, electrical and mechanical characteristics to be satisfied.

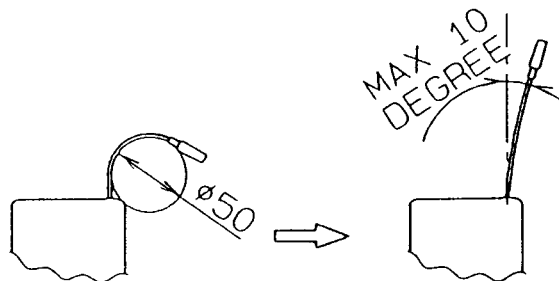


N 8 - S A 0 4 - M O 2 E (1/3)

APPROVED	INSPECTED	DESIGN
M. Makino	y. Ozawa	A. Mamuro
16, FEB. '01	16, 2 / '01	16, Feb, '01

5-3. BENDING FORCE

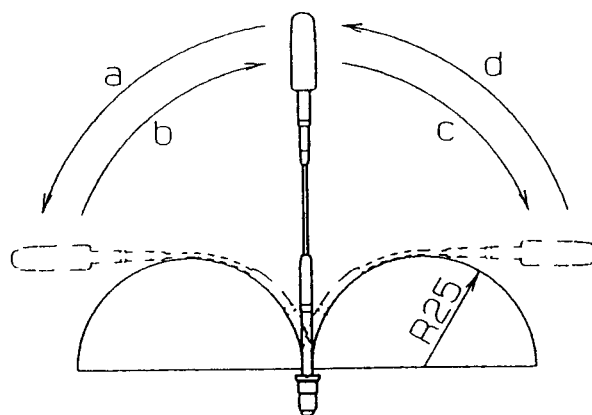
Max. 10 degree of bending deformation is accepted when antenna element is rolled on 50mm diameter of cylinder and return by itself under condition of antenna element fully extended as followings.



5-4. ANTI-CLIMP PERFORMANCE

No climp is required after 1000 cycles of bending test under condition of followings. (But Max. 10 degree of bending deformation is accepted.)

Roll the antenna element on R25mm cylinder and climp the antenna to direction of 90 degree each of right and left. one cycle is a-b-c-d. and operation cycle is 20 cycles /min.



5-5. SHOCK RESISTANCE

Electrical and mechanical characteristics to be satisfied after spontaneous drop from 76cm hight to concrete floor under the condition of antenna element fully retracted and the antenna top to be retracted position.

6. ENVIROMENTAL RESISTANCE

6-1. VIBRATION RESISTANCE

Electrical and mechanical characteristics to be satisfied after 5-150Hz of vibration test under the condition of antenna element and retracted at a rack, also the followings.

Acceleration : 3G
Sweep : 20min.
Antenna element : Fully extended

6-2. HUMIDITY RESISTANCE

Electrical and mechanical characteristics to be satisfied after humidity test under condition of antenna element fully extended and retracted.

Leave for 24H + 2H under condition of +70°C 95% then leave for 2H at room temperature.

6-3. WORKING TEMPERATURE

No fault is required at 4-3 under -20°C ~ +60°C.

6-4. SURVIVAL TEMPERATURE

No parmanent deformation is required under -30°C ~ +80°C