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**PERFORMANCE SPECIFICATION FOR
26.96 – 27.41 MHz CITIZENS BAND (CB)
RADIO TRANSCEIVERS**



**Telecommunications Authority
Hong Kong**

FOREWORD

1. This specification is prescribed under section 32D of the Telecommunications Ordinance (Cap 106) (“the Ordinance”) to set out the technical and evaluation requirements for Citizens Band (CB) radio transceivers operating in the frequency band 26.96 – 27.41 MHz in Hong Kong. Radiocommunications apparatus falling into the scope of this specification shall meet the stipulated requirements.
2. Under the Ordinance, the possession or use of any radiocommunications apparatus or any apparatus emitting radio frequency energy must be covered by an appropriate licence issued by the Telecommunications Authority (TA) with the exception of those specifically exempted from licensing under the Ordinance, such as those covered by the Telecommunications (Telecommunications Apparatus)(Exemption from Licensing) Order.
3. At present, the Office of the Telecommunications Authority (OFTA) operates a Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme. Details of the HKTEC Scheme can be found in the information note OFTA I 421. Under the Scheme, suppliers or manufacturers of the radiocommunications apparatus shall apply to OFTA for certification of their apparatus against this specification. The application procedures for certification of radiocommunications apparatus can be found in the information note OFTA I 401.
4. The TA reserves the right to give separate certification to models he considers to be technical variants and the performance of which may differ between models.
5. The TA may amend any part of this specification as and when he deems necessary.
6. In case of doubt about the interpretation of this specification, the methods of carrying out the test and the validity of statements made by the equipment manufacturers or suppliers about the equipment, the decision of the TA shall be final.
7. The HKTA specifications and information notes are issued by the TA. The documents can be obtained through one of the following methods —
 - downloading direct through the OFTA's Internet Home Page. The Home Page address is <http://www.ofta.gov.hk>;
 - making a request for hard copies to :-
Radio Laboratory,
Standards Section,
Office of the Telecommunications Authority,
29/F Wu Chung House,
213 Queen’s Road East,
Wanchai,
Hong Kong.

Fax: +852 2343 5824
Email: radiolab@ofta.gov.hk

8. Enquiries about this specification may be directed to —

Radio Laboratory, Standards Section,
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1. SCOPE OF SPECIFICATION

This specification covers the minimum performance requirements for CB radio transceivers operating in the frequency band 26.96 – 27.41 MHz for voice communications.

2. OPERATING FREQUENCIES

The operating frequencies of the equipment shall conform to the channelling plan specified in Annex 1. The channel spacing is 10 kHz. The equipment shall not be capable of operating at frequencies other than those specified in Annex 1.

3. MODULATION

Any one of the following modulation methods will be acceptable :-

1. Frequency modulation
2. Phase modulation
3. Double sideband amplitude modulation
4. Single sideband amplitude modulation

4. TECHNICAL REQUIREMENTS

- (a) The equipment operating in the frequency band 26.96 – 27.41 MHz shall meet the technical requirements as defined in one of the following standards:-
 - (i) ETSI Standard EN 300 135-2 “Electromagnetic compatibility and Radio spectrum Matters (ERM); Angle-modulated Citizens Band radio equipment (CEPT PR 27 Radio Equipment); Part 2: Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive” published by the European Telecommunications Standards Institute (ETSI);
 - (ii) ETSI Standard EN 300 433-2 “Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen’s band radio equipment; Part 2: Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive” published by the European Telecommunications Standards Institute (ETSI);
 - (iii) Code of Federal Regulations (USA); Title 47 Telecommunication; Chapter 1 Federal Communications Commission, Part 95 “Personal Radio Services”; Subpart E – Technical Regulations.

- (b) The carrier power of the equipment shall not exceed 4 watts. The peak envelope power shall not exceed 12 watts for single sideband amplitude modulation.

- END -

Annex 1

Channelling Plan

Channel No.	Frequency Range (MHz)	Carrier Frequency (MHz)
1	26.960 - 26.970	26.965
2	26.970 - 26.980	26.975
3	26.980 - 26.990	26.985
4	27.000 - 27.010	27.005
5	27.010 - 27.020	27.015
6	27.020 - 27.030	27.025
7	27.030 - 27.040	27.035
8	27.050 - 27.060	27.055
9	27.060 - 27.070	27.065
10	27.070 - 27.080	27.075
11	27.080 - 27.090	27.085
12	27.100 - 27.110	27.105
13	27.110 - 27.120	27.115
14	27.120 - 27.130	27.125
15	27.130 - 27.140	27.135
16	27.150 - 27.160	27.155
17	27.160 - 27.170	27.165
18	27.170 - 27.180	27.175
19	27.180 - 27.190	27.185
20	27.200 - 27.210	27.205
21	27.210 - 27.220	27.215
22	27.220 - 27.230	27.225
23	27.250 - 27.260	27.255
24	27.230 - 27.240	27.235
25	27.240 - 27.250	27.245
26	27.260 - 27.270	27.265
27	27.270 - 27.280	27.275
28	27.280 - 27.290	27.285
29	27.290 - 27.300	27.295
30	27.300 - 27.310	27.305
31	27.310 - 27.320	27.315
32	27.320 - 27.330	27.325
33	27.330 - 27.340	27.335
34	27.340 - 27.350	27.345
35	27.350 - 27.360	27.355
36	27.360 - 27.370	27.365
37	27.370 - 27.380	27.375
38	27.380 - 27.390	27.385
39	27.390 - 27.400	27.395
40	27.400 - 27.410	27.405