

Technical Requirement for Low Power Security System

Technical Requirement	Type I	Type II	Type III	Type IV	Test Request
Communication Method:	One-way, Simplex, or Broadcast				
Modulation Type & Frequency Channel:	See Appendix I				
Modulation Method:	Any Method / Digital Data Signal related Security Information & Control				
Max. RF Output Power:	10 mW				X
RF Output Power Tolerance:	+20%, -50%				X
Frequency Tolerance:	10 ppm	4 ppm	10 ppm	4 ppm	X
Oscillating Method:	X'tal or PLL Synthesizer				
Adjacent Channel Leakage Power:	40 dB (12.5 kHz +/- 2 kHz)	40 dB (12.5 kHz +/- 4.25 kHz)	40 dB (25 kHz +/- 6 kHz)	40 dB (25 kHz +/- 8 kHz)	X
Occupied Band Width:	4 kHz	8.5 kHz	12 kHz	16 kHz	X
Spurious Emission Strength:	2.5 micro Watts				X
Emission Wave Strength when Receiving:	4 nW				X
Function of Interference Prevention:	Automatically Transmit & Receive ID code				
ID code Length:	48 bits				X
Function of Carrier Sensing:	N.A.				
Restriction Function of Transmission Time:	Transmission ON/OFF: within 3 sec./over 2 sec.				X
Transmission Antenna Gain:	N.A.				
Transmission Antenna Construction:	With enclosure				
Telephone Network Connection:	Necessary Connection Interface				
Module Approval:	No				



TECHNICAL & CERTIFICATION INFORMATION

Appendix I. Frequency Channel Separation for Low Power Security System

Modulation Type	Type I & Type II				Type III & Type IV	
	CH #	Frequency (MHz)	CH #	Frequency (MHz)	CH #	Frequency (MHz)
F1D, F2D, or G1D	1	426.2500	25	426.5500	1	426.2625
	2	426.2625	26	426.5625	2	426.2875
	3	426.2750	27	426.5750	3	426.3125
	4	426.2875	28	426.5875	4	426.3375
	5	426.3000	29	426.6000	5	426.3625
	6	426.3125	30	426.6125	6	426.3875
	7	426.3250	31	426.6250	7	426.4125
	8	426.3375	32	426.6375	8	426.4375
	9	426.3500	33	426.6500	9	426.4625
	10	426.3625	34	426.6625	10	426.4875
	11	426.3750	35	426.6750	11	426.5125
	12	426.3875	36	426.6875	12	426.5375
	13	426.4000	37	426.7000	13	426.5625
	14	426.4125	38	426.7125	14	426.5875
	15	426.4250	39	426.7250	15	426.6125
	16	426.4375	40	426.7375	16	426.6375
	17	426.4500	41	426.7500	17	426.6625
	18	426.4625	42	426.7625	18	426.6875
	19	426.4750	43	426.7750	19	426.7125
	20	426.4875	44	426.7875	20	426.7375
	21	426.5000	45	426.8000	21	426.7625
	22	426.5125	46	426.8125	22	426.7875
	23	426.5250	47	426.8250	23	426.8125
	24	426.5375	48	426.8375	24	426.8375

Appendix II. Guide Line of ARIB Standard for Low Power Security System

Referred from "RCR STD-30 Rev. 2.0 / 1999/2/2"

Standard Model	Model I	Model II	Model III	Model IV
Facility Size:	Small	Middle	Large	Large
Information Data Size:	Small	Small	Large	Large
Transmission Speed:	Approx. 1200 bps	Approx. 2400 bps	Approx. 4800 bps	Approx. 9600 bps

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