



Telecommunications Regulatory Commission

Radio Spectrum Management Department

Compliance List

for

Spread Spectrum System

For use within the confined area of a building

in the frequency ranges 2.400 – 2.4835 GHz , and 5.15 – 5.25 GHz

Specification	Comply		ACTUAL VALUE	Official Use Only
	YES	NO		
1- Modulation				
1-1) Frequency hopping spread spectrum (FHSS modulation) Frequency hopping shall use at least 20 well defined, non a) overlapping channels or hopping positions separated by the channel bandwidth as measured at -20 dB below peak power. Dwell time per channel shall not exceed 0.4 seconds b) Each channel of the hopping sequence shall be occupied at least c) once during a period not exceeding four times the product of the dwell time per hop and the number of channels.				
1-2) Direct sequence spread spectrum (DSSS modulation)				
2- Frequency Range				
2.400 – 2.4835 GHz and 5.15 – 5.25 GHz Frequency Range is determined by the lowest and highest frequencies occupied by the power envelope.				
3- Effective Radiated Power				
≤ 20 dBm (= 100 mW) eirp				

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Specification	Comply		ACTUAL VALUE	Official Use Only																													
	YES	NO																															
4- Peak Power Density																																	
FHSS modulation 20 dBm/100 kHz (= 100 mW/100kHz) eirp Other modulation 10 dBm / 1 MHz (= 10 mW/MHz) eirp																																	
5- Transmitter Spurious Emissions																																	
Shall not exceed the following values in the indicated bands : <table border="1" data-bbox="108 878 927 1467"> <thead> <tr> <th rowspan="2">Frequency Range</th> <th colspan="2">Operating</th> <th colspan="2">Standby</th> </tr> <tr> <th>in 120 kHz</th> <th>in 1 MHz</th> <th>in 120 kHz</th> <th>in 1 MHz</th> </tr> </thead> <tbody> <tr> <td>30MHz - 1GHz</td> <td>-36dBm (250 nW)</td> <td>n.a.</td> <td>-57dBm (2 nW)</td> <td>n.a.</td> </tr> <tr> <td>41.0 - 68MHz 87.5 - 118 MHz 162.0 - 230 MHz 470.0 - 862MHz</td> <td>-54 dBm (4 nW)</td> <td>n.a.</td> <td>-57dBm (2nW)</td> <td>n.a.</td> </tr> <tr> <td>1 - 12.75 GHz</td> <td>n.a.</td> <td>-30 dBm (1µW)</td> <td>n.a.</td> <td>-47 dBm (20nW)</td> </tr> <tr> <td>890 - 960 MHz 1.8 - 1.9 GHz 5.15 - 5.3 GHz See Note</td> <td>-56 dBm (3 nW)</td> <td>n.a.</td> <td>as above</td> <td>as above</td> </tr> </tbody> </table> <p>In these bands, the measurement of any spurious product found shall be repeated with a measurement bandwidth of 30 kHz. If the level observed remains within 2 dB of the previous measurement, the spurious product shall be considered a narrow band signal. For narrow band signals the limit value of -36 dBm (250 nW) shall apply at frequencies below 1 GHz and the limit value of -30 dBm (1µW) shall apply at frequencies above 1 GHz.</p>					Frequency Range	Operating		Standby		in 120 kHz	in 1 MHz	in 120 kHz	in 1 MHz	30MHz - 1GHz	-36dBm (250 nW)	n.a.	-57dBm (2 nW)	n.a.	41.0 - 68MHz 87.5 - 118 MHz 162.0 - 230 MHz 470.0 - 862MHz	-54 dBm (4 nW)	n.a.	-57dBm (2nW)	n.a.	1 - 12.75 GHz	n.a.	-30 dBm (1µW)	n.a.	-47 dBm (20nW)	890 - 960 MHz 1.8 - 1.9 GHz 5.15 - 5.3 GHz See Note	-56 dBm (3 nW)	n.a.	as above	as above
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6- Receiver Spurious Emissions													
Shall be limited to the following values : <table border="1" data-bbox="132 658 904 815" style="margin: 10px auto;"> <thead> <tr> <th>Frequency Range</th> <th>in 120 kHz</th> <th>in 1 MHz</th> </tr> </thead> <tbody> <tr> <td>30 MHz - 1GHz</td> <td>-57 dBm (2 nW)</td> <td>n.a.</td> </tr> <tr> <td>1 - 12.75 GHz</td> <td>n.a.</td> <td>-47 dBm (20nW)</td> </tr> </tbody> </table> <p>The bandwidths given above are the noise-equivalent bandwidth of the measuring methods.</p>					Frequency Range	in 120 kHz	in 1 MHz	30 MHz - 1GHz	-57 dBm (2 nW)	n.a.	1 - 12.75 GHz	n.a.	-47 dBm (20nW)
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