

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION BLE-1M

Peak Antenna Gain	1.520	dBi
Declaration Output Power	2.183	mW
Declaration Output Power	3.391	dBm
EIRP	4.911	dBm
Input Power Voltage	5	Vdc

Tested Circuit Insertion Loss		0.8	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

2.1 TEST Results (Normal Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	Limit			
Channel Number		Ch.	0	19	39	----				
Reading Frequency		MHz	2402.0063	2440.0063	2480.0066	----				
Frequency Tolerance		ppm	2.62	2.58	2.66	PASS	-50 ≤ x ≤ +50			
Occupied Bandwidth		MHz	1.2451	1.2569	1.2550	PASS	≤ 26 MHz			
RF Output Power		mW	2.061	2.148	2.183	PASS	≤ 10 mW			
RF Output Power Tolerance		%	-5.589	-1.603	0.000	PASS	≤ +20			
EIRP		dBm	4.660	4.840	4.910					
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.004	0.002	0.005	PASS	≤ 2.5uW/MHz			
		MHz	1941.500	2288.000	1951.000	----				
	2387-2400MHz	μW/MHz	0.536	0.003	0.002	PASS	≤ 25uW/MHz			
		MHz	2400.000	2399.532	2399.870	----				
	2483.5-2496.5MHz	μW/MHz	0.002	0.002	0.021	PASS	≤ 25uW/MHz			
		MHz	2489.792	2488.037	2483.708	----				
	2496.5 - 12.5GHz	μW/MHz	0.003	0.002	0.005	PASS	≤ 2.5uW/MHz			
		MHz	2667.000	12290.000	2496.500	----				
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.019	0.017	0.013	PASS	≤ 4 nW			
		MHz	776.900	776.900	776.900	----				
	1 - 12.5GHz	nW	0.438	0.851	2.242	PASS	≤ 20 nW			
		MHz	2472.000	2461.000	2461.000	----				
Interference Prevention Function		----	good			PASS				

2.2 TEST Results (High Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	NOTES			
Channel Number		Ch.	0	19	39	----				
Reading Frequency		MHz	2402.0066	2440.0066	2480.0066	----				
Frequency Tolerance		ppm	2.75	2.70	2.66	PASS	-50 ≤ x ≤ +50			
Occupied Bandwidth		MHz	1.2451	1.2547	1.2550	PASS	≤ 26 MHz			
RF Output Power		mW	2.061	2.143	2.183	PASS	≤ 10 mW			
RF Output Power Tolerance		%	-5.606	-1.837	-0.012	PASS	≤ +20			
EIRP		dBm	4.660	4.830	4.910					
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.004	0.003	0.003	PASS	≤ 2.5uW/MHz			
		MHz	2384.600	1946.200	2379.900	----				
	2387-2400MHz	μW/MHz	0.534	0.003	0.002	PASS	≤ 25uW/MHz			
		MHz	2400.000	2399.987	2399.545	----				
	2483.5-2496.5MHz	μW/MHz	0.002	0.002	0.021	PASS	≤ 25uW/MHz			
		MHz	2491.417	2494.459	2483.604	----				
	2496.5 - 12.5GHz	μW/MHz	0.002	0.002	0.004	PASS	≤ 2.5uW/MHz			
		MHz	12280.000	12200.000	2496.500	----				
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.013	0.017	0.018	PASS	≤ 4 nW			
		MHz	776.900	776.900	776.900	----				
	1 - 12.5GHz	nW	0.685	0.515	0.754	PASS	≤ 20 nW			
		MHz	2472.000	2461.000	2461.000	----				
Interference Prevention Function		----	good			PASS				

2.3 TEST Results (Low Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	NOTES		
Channel Number		Ch.	0	19	39	----			
Reading Frequency		MHz	2402.0063	2440.0066	2480.0066	----			
Frequency Tolerance		ppm	2.62	2.70	2.66	PASS	-50 ≤ x ≤ +50		
Occupied Bandwidth		MHz	1.2456	1.2552	1.2547	PASS	≤ 26 MHz		
RF Output Power		mW	2.061	2.148	2.178	PASS	≤ 10 mW		
RF Output Power Tolerance		%	-5.606	-1.611	-0.242	PASS	≤ +20		
EIRP		dBm	4.660	4.840	4.900				
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.004	0.002	0.002	PASS	≤ 2.5uW/MHz		
		MHz	1953.300	1953.300	1953.300	----			
	2387-2400MHz	μW/MHz	0.580	0.003	0.002	PASS	≤ 25uW/MHz		
		MHz	2400.000	2399.688	2399.857	----			
	2483.5-2496.5MHz	μW/MHz	0.002	0.002	0.020	PASS	≤ 25uW/MHz		
		MHz	2487.478	2492.431	2483.578	----			
	2496.5 - 12.5GHz	μW/MHz	0.002	0.003	0.004	PASS	≤ 2.5uW/MHz		
		MHz	2667.000	2537.000	2496.500	----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.016	0.019	0.020	PASS	≤ 4 nW		
		MHz	776.900	732.280	776.900	----			
	1 - 12.5GHz	nW	0.494	0.534	1.045	PASS	≤ 20 nW		
		MHz	2461.000	2472.000	2461.000	----			
Interference Prevention Function		----	good			PASS			

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION BLE-2M

Peak Antenna Gain	1.520	dBi
Declaration Output Power	2.178	mW
Declaration Output Power	3.381	dBm
EIRP	4.901	dBm
Input Power Voltage	5	Vdc

Tested Circit Insertion Loss		0.8	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

2.1 TEST Results (Normal Voltage)

Measurement Frequency	MHz	2402	2440	2480	Result	Limit
Channel Number	Ch.	0	19	39	-----	
Reading Frequency	MHz	2402.0063	2440.0063	2480.0066	-----	
Frequency Tolerance	ppm	2.62	2.58	2.66	PASS	$-50 \leq x \leq +50$
Occupied Bandwidth	MHz	2.1835	2.1918	2.1909	PASS	≤ 26 MHz
RF Output Power	mW	2.061	2.148	2.178	PASS	≤ 10 mW
RF Output Power Tolerance	%	-5.372	-1.377	0.000	PASS	$\leq +20$
EIRP	dBm	4.660	4.840	4.900		
Unwanted Emission Strength (TX1)	Under 2387MHz	μ W/MHz	0.003	0.002	PASS	$\leq 2.5\mu$ W/MHz
		MHz	2384.600	2323.400	2363.400	-----
	2387-2400MHz	μ W/MHz	13.317	0.003	PASS	$\leq 25\mu$ W/MHz
		MHz	2400.000	2399.961	2399.545	-----
	2483.5-2496.5MHz	μ W/MHz	0.002	0.002	PASS	$\leq 25\mu$ W/MHz
		MHz	2489.610	2492.912	2483.500	-----
	2496.5 - 12.5GHz	μ W/MHz	0.002	0.002	PASS	$\leq 2.5\mu$ W/MHz
		MHz	6438.000	5608.000	2496.500	-----
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.028	0.012	PASS	≤ 4 nW
		MHz	515.000	766.230	514.030	-----
	1 - 12.5GHz	nW	0.635	0.811	PASS	≤ 20 nW
		MHz	2461.000	2461.000	2530.000	-----
Interference Prevention Function	-----	good			PASS	

2.2 TEST Results (High Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	NOTES			
Channel Number		Ch.	0	19	39	----				
Reading Frequency		MHz	2402.0063	2440.0063	2480.0066	----				
Frequency Tolerance		ppm	2.62	2.58	2.66	PASS	-50 ≤ x ≤ +50			
Occupied Bandwidth		MHz	2.1847	2.1898	2.1901	PASS	≤ 26 MHz			
RF Output Power		mW	2.056	2.143	2.178	PASS	≤ 10 mW			
RF Output Power Tolerance		%	-5.606	-1.612	-0.013	PASS	≤ +20			
EIRP		dBm	4.650	4.830	4.900					
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.004	0.002	0.002	PASS	≤ 2.5uW/MHz			
		MHz	2387.000	2146.600	2354.000	----				
	2387-2400MHz	μW/MHz	13.335	0.003	0.002	PASS	≤ 25uW/MHz			
		MHz	2400.000	2399.727	2399.519	----				
	2483.5-2496.5MHz	μW/MHz	0.002	0.002	0.028	PASS	≤ 25uW/MHz			
		MHz	2492.197	2490.884	2483.669	----				
	2496.5 - 12.5GHz	μW/MHz	0.002	0.002	0.005	PASS	≤ 2.5uW/MHz			
		MHz	12250.000	12450.000	2496.500	----				
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.015	0.016	0.011	PASS	≤ 4 nW			
		MHz	514.030	513.060	39.700	----				
	1 - 12.5GHz	nW	1.109	0.666	0.563	PASS	≤ 20 nW			
		MHz	2461.000	2461.000	2472.000	----				
Interference Prevention Function		----	good			PASS				

2.3 TEST Results (Low Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	NOTES		
Channel Number		Ch.	0	19	39	----			
Reading Frequency		MHz	2402.0063	2440.0063	2480.0066	----			
Frequency Tolerance		ppm	2.62	2.58	2.66	PASS	-50 ≤ x ≤ +50		
Occupied Bandwidth		MHz	2.1831	2.1905	2.1902	PASS	≤ 26 MHz		
RF Output Power		mW	2.061	2.148	2.173	PASS	≤ 10 mW		
RF Output Power Tolerance		%	-5.389	-1.385	-0.243	PASS	≤ +20		
EIRP		dBm	4.660	4.840	4.890				
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.003	0.003	0.002	PASS	≤ 2.5uW/MHz		
		MHz	2387.000	2264.400	2262.100	----			
	2387-2400MHz	μW/MHz	12.859	0.003	0.002	PASS	≤ 25uW/MHz		
		MHz	2400.000	2399.883	2399.441	----			
	2483.5-2496.5MHz	μW/MHz	0.002	0.002	0.029	PASS	≤ 25uW/MHz		
		MHz	2491.638	2487.166	2483.617	----			
	2496.5 - 12.5GHz	μW/MHz	0.002	0.003	0.003	PASS	≤ 2.5uW/MHz		
		MHz	5868.000	5808.000	2496.500	----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.020	0.009	0.011	PASS	≤ 4 nW		
		MHz	499.480	761.380	494.630	----			
	1 - 12.5GHz	nW	0.445	0.602	0.521	PASS	≤ 20 nW		
		MHz	5267.000	1955.000	2461.000	----			
Interference Prevention Function		----	good			PASS			

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION BLE-C2

Declaration Output Power	1.202	mW
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Tested Circit Insertion Loss		0.8	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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2.1 TEST Results (Normal Voltage)

Measurement Frequency	MHz	2402	2440	2480	Result	Limit
Channel Number	Ch.	0	19	39	-----	
RF Output Power	mW	1.202	1.202	1.202	PASS	≤ 10 mW

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION BLE-C8

Declaration Output Power	1.202	mW
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Tested Circit Insertion Loss		0.8	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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2.1 TEST Results (Normal Voltage)

Measurement Frequency	MHz	2402	2440	2480	Result	Limit
Channel Number	Ch.	0	19	39	-----	
RF Output Power	mW	1.202	1.202	1.202	PASS	≤ 10 mW