

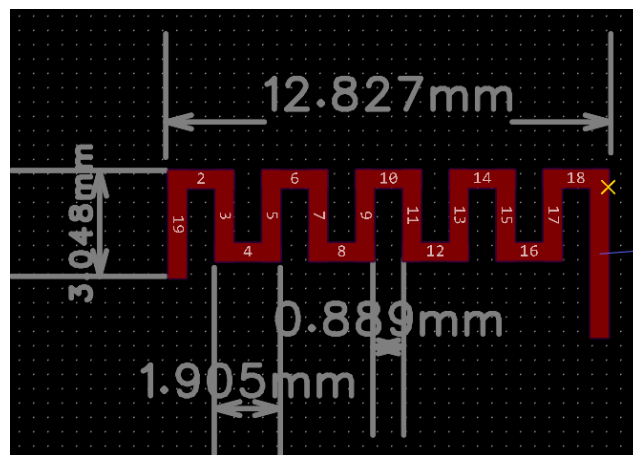
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.2	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	1.2 (Avg Gain XY-plane)	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Input Impedence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V . S .W . R	< 1.4	

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board



Antenna Gain

Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.2	-0.5	1.2	-3.6	1.1	-3.0	6 0.2 %

Return Loss



The Environment of Antenna Radiation Pattern



Far-field Power Distribution (H+V) on X-Y Plane
 Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dB @2.44000 GHz

This polar plot illustrates the radiation pattern of the antenna in the X-Y plane. The radial scale represents the gain in dB, with concentric circles marked at 0, -10, -20, -30, -40, -50, -60, -70, -80, -90, -100, -110, -120, -130, -140, -150, -160, -170, -180, -190, -200, -210, -220, -230, -240, -250, -260, -270, -280, -290, -300, -310, -320, -330, -340, -350, -360, -370, -380, -390, -400, -410, -420, -430, -440, -450, -460, -470, -480, -490, -500, -510, -520, -530, -540, -550, -560, -570, -580, -590, -600, -610, -620, -630, -640, -650, -660, -670, -680, -690, -700, -710, -720, -730, -740, -750, -760, -770, -780, -790, -800, -810, -820, -830, -840, -850, -860, -870, -880, -890, -900, -910, -920, -930, -940, -950, -960, -970, -980, -990, -1000, -1010, -1020, -1030, -1040, -1050, -1060, -1070, -1080, -1090, -1100, -1110, -1120, -1130, -1140, -1150, -1160, -1170, -1180, -1190, -1200, -1210, -1220, -1230, -1240, -1250, -1260, -1270, -1280, -1290, -1300, -1310, -1320, -1330, -1340, -1350, -1360, -1370, -1380, -1390, -1400, -1410, -1420, -1430, -1440, -1450, -1460, -1470, -1480, -1490, -1500, -1510, -1520, -1530, -1540, -1550, -1560, -1570, -1580, -1590, -1600, -1610, -1620, -1630, -1640, -1650, -1660, -1670, -1680, -1690, -1700, -1710, -1720, -1730, -1740, -1750, -1760, -1770, -1780, -1790, -1800, -1810, -1820, -1830, -1840, -1850, -1860, -1870, -1880, -1890, -1900, -1910, -1920, -1930, -1940, -1950, -1960, -1970, -1980, -1990, -2000, -2010, -2020, -2030, -2040, -2050, -2060, -2070, -2080, -2090, -2100, -2110, -2120, -2130, -2140, -2150, -2160, -2170, -2180, -2190, -2200, -2210, -2220, -2230, -2240, -2250, -2260, -2270, -2280, -2290, -2300, -2310, -2320, -2330, -2340, -2350, -2360, -2370, -2380, -2390, -2400, -2410, -2420, -2430, -2440, -2450, -2460, -2470, -2480, -2490, -2500, -2510, -2520, -2530, -2540, -2550, -2560, -2570, -2580, -2590, -2600, -2610, -2620, -2630, -2640, -2650, -2660, -2670, -2680, -2690, -2700, -2710, -2720, -2730, -2740, -2750, -2760, -2770, -2780, -2790, -2800, -2810, -2820, -2830, -2840, -2850, -2860, -2870, -2880, -2890, -2900, -2910, -2920, -2930, -2940, -2950, -2960, -2970, -2980, -2990, -3000, -3010, -3020, -3030, -3040, -3050, -3060, -3070, -3080, -3090, -3100, -3110, -3120, -3130, -3140, -3150, -3160, -3170, -3180, -3190, -3200, -3210, -3220, -3230, -3240, -3250, -3260, -3270, -3280, -3290, -3300, -3310, -3320, -3330, -3340, -3350, -3360, -3370, -3380, -3390, -3400, -3410, -3420, -3430, -3440, -3450, -3460, -3470, -3480, -3490, -3500, -3510, -3520, -3530, -3540, -3550, -3560, -3570, -3580, -3590, -3600, -3610, -3620, -3630, -3640, -3650, -3660, -3670, -3680, -3690, -3700, -3710, -3720, -3730, -3740, -3750, -3760, -3770, -3780, -3790, -3800, -3810, -3820, -3830, -3840, -3850, -3860, -3870, -3880, -3890, -3900, -3910, -3920, -3930, -3940, -3950, -3960, -3970, -3980, -3990, -4000, -4010, -4020, -4030, -4040, -4050, -4060, -4070, -4080, -4090, -4100, -4110, -4120, -4130, -4140, -4150, -4160, -4170, -4180, -4190, -4200, -4210, -4220, -4230, -4240, -4250, -4260, -4270, -4280, -4290, -4300, -4310, -4320, -4330, -4340, -4350, -4360, -4370, -4380, -4390, -4400, -4410, -4420, -4430, -4440, -4450, -4460, -4470, -4480, -4490, -4500, -4510, -4520, -4530, -4540, -4550, -4560, -4570, -4580, -4590, -4600, -4610, -4620, -4630, -4640, -4650, -4660, -4670, -4680, -4690, -4700, -4710, -4720, -4730, -4740, -4750, -4760, -4770, -4780, -4790, -4800, -4810, -4820, -4830, -4840, -4850, -4860, -4870, -4880, -4890, -4900, -4910, -4920, -4930, -4940, -4950, -4960, -4970, -4980, -4990, -5000, -5010, -5020, -5030, -5040, -5050, -5060, -5070, -5080, -5090, -5100, -5110, -5120, -5130, -5140, -5150, -5160, -5170, -5180, -5190, -5200, -5210, -5220, -5230, -5240, -5250, -5260, -5270, -5280, -5290, -5300, -5310, -5320, -5330, -5340, -5350, -5360, -5370, -5380, -5390, -5400, -5410, -5420, -5430, -5440, -5450, -5460, -5470, -5480, -5490, -5500, -5510, -5520, -5530, -5540, -5550, -5560, -5570, -5580, -5590, -5600, -5610, -5620, -5630, -5640, -5650, -5660, -5670, -5680, -5690, -5700, -5710, -5720, -5730, -5740, -5750, -5760, -5770, -5780, -5790, -5800, -5810, -5820, -5830, -5840, -5850, -5860, -5870, -5880, -5890, -5900, -5910, -5920, -5930, -5940, -5950, -5960, -5970, -5980, -5990, -6000, -6010, -6020, -6030, -6040, -6050, -6060, -6070, -6080, -6090, -6100, -6110, -6120, -6130, -6140, -6150, -6160, -6170, -6180, -6190, -6200, -6210, -6220, -6230, -6240, -6250, -6260, -6270, -6280, -6290, -6300, -6310, -6320, -6330, -6340, -6350, -6360, -6370, -6380, -6390, -6400, -6410, -6420, -6430, -6440, -6450, -6460, -6470, -6480, -6490, -6500, -6510, -6520, -6530, -6540, -6550, -6560, -6570, -6580, -6590, -6600, -6610, -6620, -6630, -6640, -6650, -6660, -6670, -6680, -6690, -6700, -6710, -6720, -6730, -6740, -6750, -676

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.68 dBi; Plot AvgGain(H+V)= -3.83dBi @2.4400 GHz

A polar plot showing the far-field power distribution of the antenna in the X-Z plane. The plot is circular with concentric grid lines representing gain in dBi. The radial scale ranges from -40 dBi to 0 dBi, with major grid lines every 10 dBi. The angular scale ranges from 0 to 360 degrees, with major grid lines every 15 degrees. A red curve represents the power distribution, showing a main lobe centered around 90 degrees (pointing right) with a peak gain of approximately -10 dBi. There are also smaller lobes around 300 and 210 degrees. The plot is titled 'Far-field Power Distribution(H+V) on X-Z Plane' and includes the following data: Plot Peak Gain(H+V)= 1.68 dBi; Plot AvgGain(H+V)= -3.83dBi @2.4400 GHz.

Far-field Power Distribution(H+V) on Y-Z Plane
 Plot Peak Gain(H+V)= 1.11 dBi; Plot AvgGain(H+V)= -2.99dBi @2.44000 GHz

Manufacturer Address: PO Box 193 Alamo California the United States