

2. 4G Antenna Specification sheet

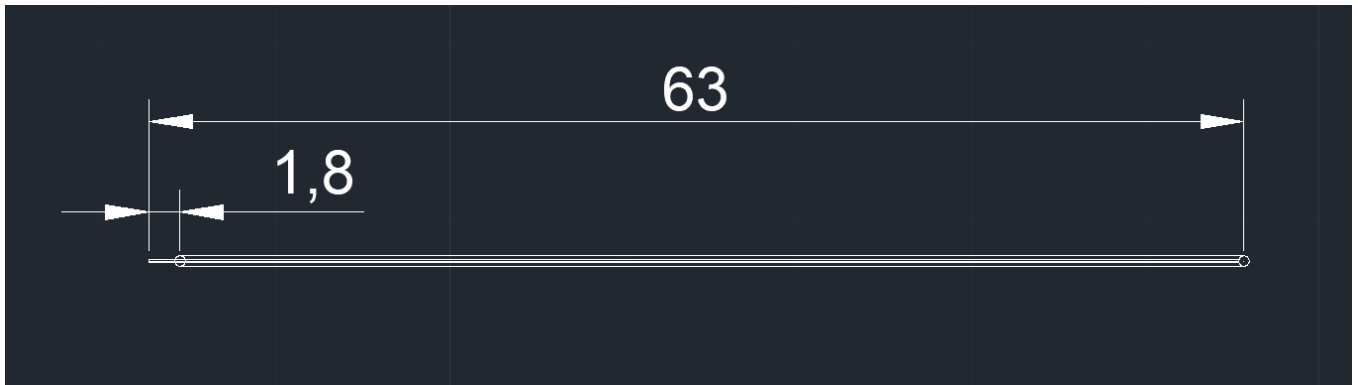
DESCRIPTION: 内置天线 3 号
Antenna model:HLANT003

Antenna size

Electronic wire model: UL1571

Wire specifications: 30AWG

Wire core: copper wire



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2

Construction:

Item		Details
① Inner conductor	Material	Tinned copper
	(根/mm)/Composition (No. /mm)	7/0.08±0.005mm
	NOM. O. D	0.24±0.01mm
② Insulation	Material	聚全氟乙丙烯/FEP
	NOM. O. D	0.8±0.03mm
	Color	black

material object



Electrical performance parameters

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50 ± 3.0	
耐压强度/Dielectric Strength	A.C V/lmin	1000	
衰减/Attenuation	/	频率/Frequency	dB/1m
		1GHz	≤ 2.23
		2GHz	≤ 3.15
		3GHz	≤ 3.96
		4GHz	≤ 4.6
		5GHz	≤ 5.15
		6GHz	≤ 5.7
		8GHz	≤ 7.05
		10GHz	≤ 8.15
驻波比/Standing wave(0-8GHz)	/	≤ 1.4	
驻波比/Standing wave(8-10GHz)	/	≤ 1.5	

Passive debugging diagram



Antenna gain

Gain&Efficiency				
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益	efficiency 效率(dBi)	efficiency 效率(%)
2400	-0.57	-22.16	-6.37	23.06
2410	-1.06	-21.85	-6.74	21.20
2420	-0.28	-19.11	-5.92	25.59
2430	-0.39	-18.9	-5.88	25.80
2440	-0.72	-18.82	-5.97	25.30
2450	-0.98	-19.6	-6.13	24.40
2460	-0.75	-20.69	-5.76	26.53
2470	-0.89	-20.99	-5.79	26.38
2480	-1.25	-21.79	-6.05	24.80
2490	-0.5	-23.26	-5.49	28.22
2500	-0.23	-23.19	-5.42	28.69

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