规　　格　　书

SPECIFICATION POR APPROVAL

客　　户 CUSTOMER 名　　称 STYLE	透明天线 transparent antenna
型　　号 SIZE	FEP UL1332 20AWG
厂　　商 RECOGNIZED	深圳市铭威创业科技有限公司
天线类型	2.4G
天线尺寸	29.5mm
产品编号 PRODUCTION	A013322201009001

Manufacturer: 深圳市铭威创业科技有限公司
Mingwei Entrepreneurship Technoiogy Co,Ltd
地址：深圳市大水坑观兰第一工业区
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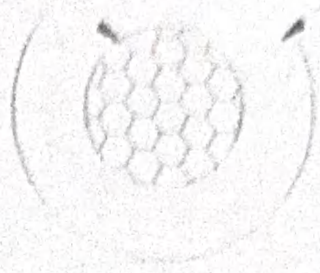
SPECIFICATION(规格书)

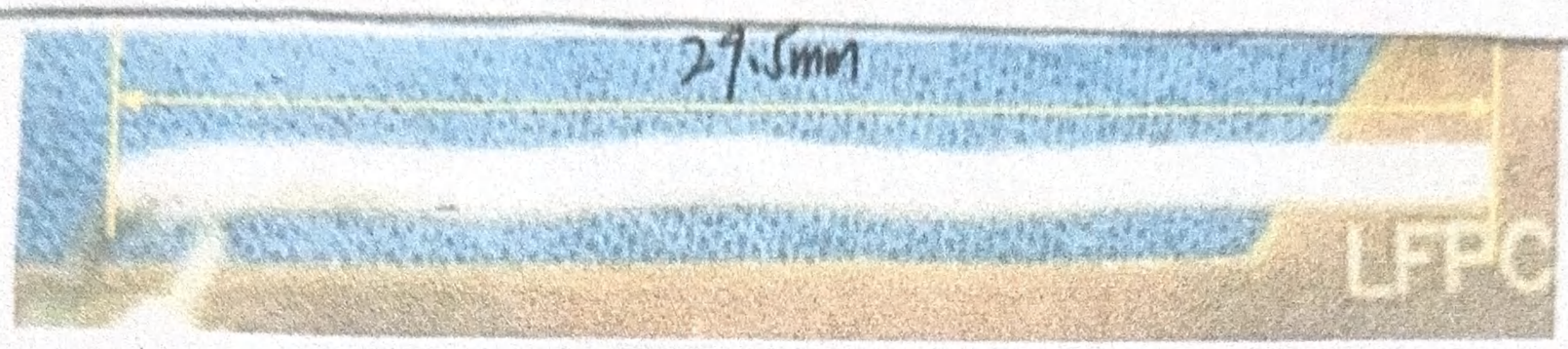
SPEC NO.(规格书编号):1007-004	VERSION(版本):V1.0	CUTOF WIRE(截面图)
DESCRIPTION(产品描述): PVC INSULATED WIRE		CONDUCTOR (导体)  INSULATION (绝缘)
SIZE(规格): PVC #22(17/0.12TS) OD:1.6 透明色		
REFERENCE(参考): UL758、UL1581		
RATING VOLTAGE(额定电压)V:	300	
RATING TEMPERATURE(额定温度)℃:	80	

CONSTRUCTION(结构):		
CONDUCTOR 导体	AWG(线规)	#22
	CONSTRUCTION(结构)	17/0.12TS±0.007mm
	MATERIAL(材质)	Tinned annealed stranded copper(绞合镀锡铜线)
	DIAMETER(线径)	0.57mm
INSULATION 绝缘	MATERIAL(材质)	PVC
	MINIMUM AVERAGE THICKNESS (最小平均厚度)	0.4mm
	MINIMUM THICKNESS(最薄厚度)	0.35mm
	DIAMETER(线径)	1.60mm±0.10mm
	COLOR(颜色)	透明色
FILLER(填充)	COTTON THREAD(棉纱)	无
BINDER(被覆层)	COTTON PAPER(棉纸)	无
SHIELD(屏蔽)	BRAID(编织)	无
	DRAIN WIRE(地线)	无
JACKET(外被)	MATERIAL(材质)	无
	MINIMUM AVERAGE THICKNESS (最小平均厚度)	无
	MINIMUM THICKNESS(最薄厚度)	无
	DIAMETER(线径)	无
	COLOR(颜色)	无
PHYSICAL & ELECTRICAL PROPERTIES(物理与电气性能)		
CONDUCTOR RESISTANCE(导体电阻)ohms/km:		59.4 MAX. at 20℃
INSULATION RESISTANCE(绝缘电阻)Mohms/km:		0.75
SPARK TEST(火花测试)kv:		3
VOLTAGE WITHSTAND TEST(耐压测试)kv/min.:		2.0
FLAME TEST(耐然测试):		VW-1
UNAGED FOR INSULATION(老化前)	ELONGATION(伸长率):%	100
	TENSILE STRENGTH(抗张强度):N/cm²	1034
AGED FOR INSULATION(老化后)	ELONGATION(伸长率):%	65%UNAGED MIN.(121±1.0℃×168H)
	TENSILE STRENGTH(抗张强度):N/cm²	70%UNAGED MIN.(121±1.0℃×168H)
UNAGED FOR JACKET(老化前)	ELONGATION(伸长率):%	无
	TENSILE STRENGTH(抗张强度):N/cm²	无
AGED FOR JACKET (老化后)	ELONGATION(伸长率):%	无
	TENSILE STRENGTH(抗张强度):N/cm²	无

MARKING(印字):

无印字

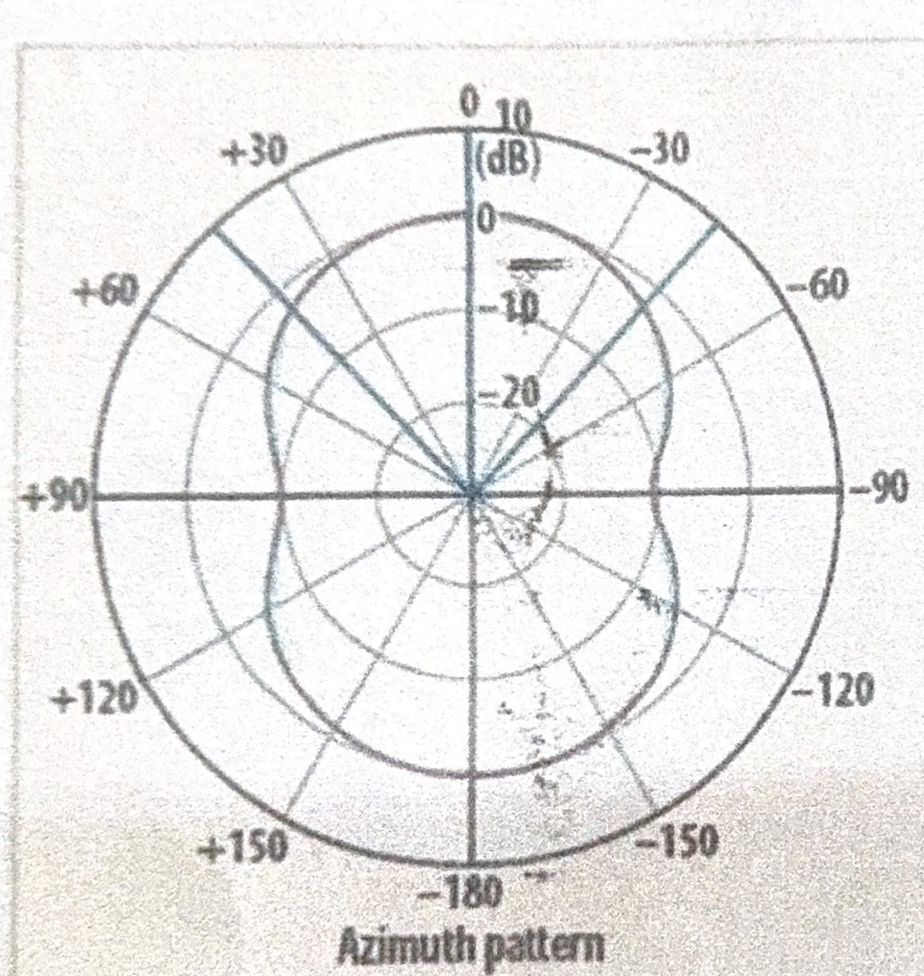
PREPARED(制作):XF	APPROVED(批准):LXW	ISSUE DATE(发行时间):2022.9.21



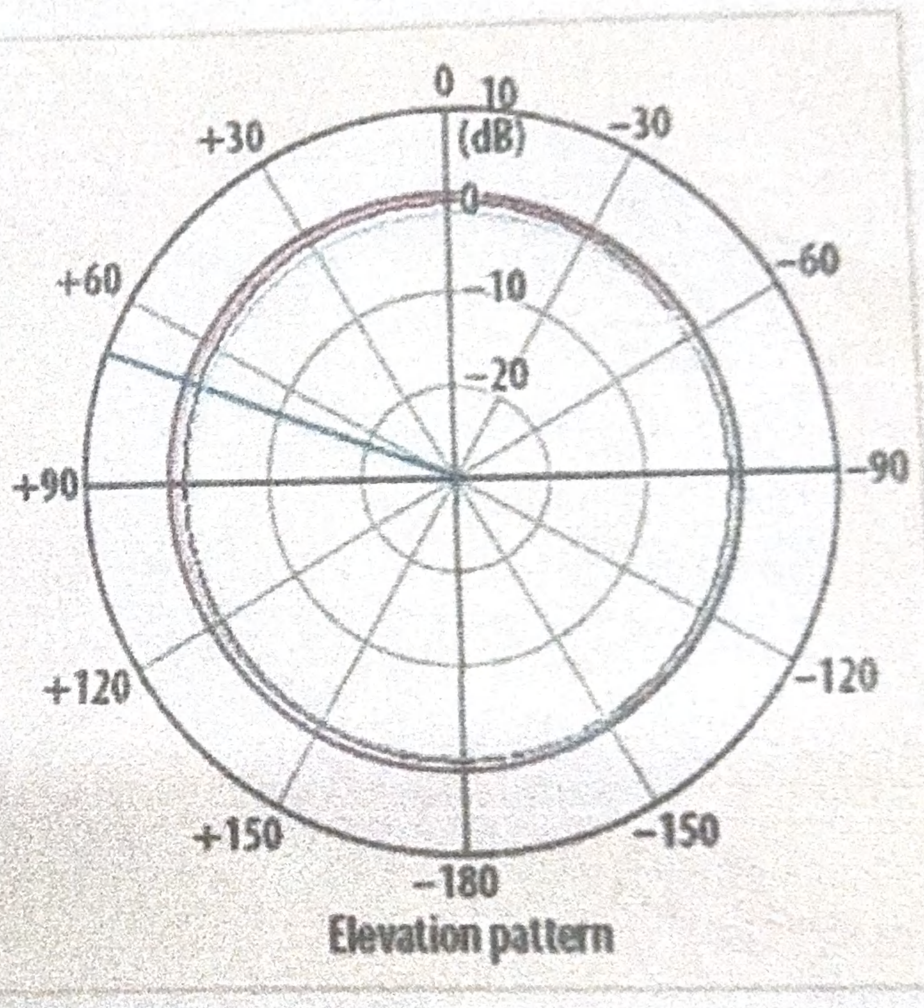
This is a quarter wave antenna. It is bent into an L-shape. The shorter side is connected to earth. The longer side is left open circuit at the end. The feed point is located somewhere between the earth end and the open end. The resulting structure resembles the letter F and possesses the properties of both a loop antenna due to the circulating current from the feed point to ground and a whip antenna due to the open circuited straight section.

In the PCB version the antenna is printed on the top layer and a ground plane is placed near the antenna on the top layer. There must not be a ground plane underneath the antenna. The aim is to make the quarter wave section resonate at mid band frequency. The feed point (which is the input/output connection) is connected to the L-Shape at the point corresponding to 50W. Experiment with measurement to determine correct location for the feed point and length of this antenna.

Operating Temperature:	-20°C ~ +65°C	Return Loss:	-10dB max
Storage Temperature:	-30°C ~ +75°C	Certain Direction:	0 min
Gain (max):	0dBi		



Azimuth pattern



Elevation pattern