

RF Cable Assembly Specification

1. Connector SMA female

Main technical specifications	
Frequency Range (MHZ)	0~3000
Impedance(Ω)	50
VSWR	<2.0
Insertion Loss(dB)	<2.0
Physical Properties	
Cable	1.13 Coaxial
Connector	SMA female +ufl holder
Storage Temp	-30°C~+75°C
Operating Temp	-20°C~+65°C

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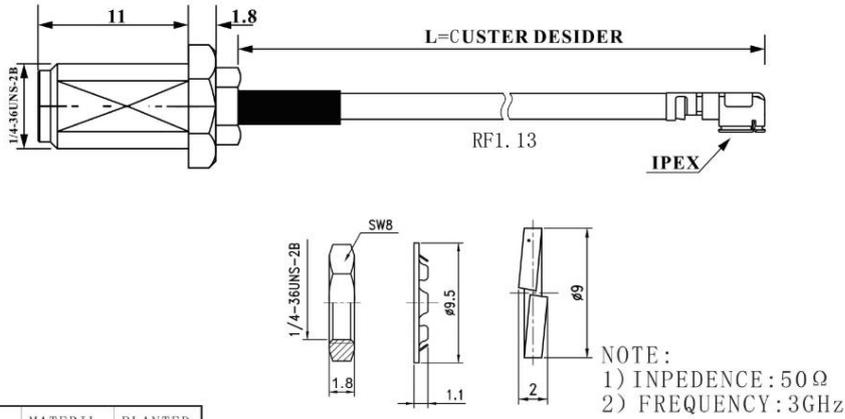
2.Cable RG1.13

型号 Type	RF-1.13/50	料号 P/N: 51762	SY113/50-055B(Black)	版本: V0
结构图 Structure drawing				
结构特性 Structure characteristics				
结构 Structure	项目 Item	标准值 Standard value		
①内导体 Inner conductor	材料 Material	镀锡铜线 Tinned copper wire		
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	7/0.08		
	(股奇)标称外径(mm) (Interwire)NOM.O.D.(mm)	0.24±0.02		
②绝缘层 Insulation	材料 Material	聚全氟乙内烯 FEP		
	颜色 Color	透明 Clarity		
	标称外径(mm) NOM.O.D.(mm)	0.70±0.03		
③外导体 Outer conductor	材料 Material	镀锡铜线 Tinned copper wire		
	组成:锭数/股数/单根外径(mm) Makeup:No. spindles /No. of each spindie / O.D. of every wire(mm)	16/4/0.05		
	标称外径(mm) NOM.O.D.(mm)	0.92±0.05		
	覆盖率(%) Coverage ratio(%)	90±5		
④护套层 Jacket	材料 Material	聚全氟乙内烯 FEP		
	颜色 Color	黑 Black		
	标称外径(mm) NOM.O.D.(mm)	1.13±0.05		
电性能特性 Electrical characteristics				
项目 Item	标准值 Standard value @20℃	项目 Item	频率 Frequency	典型值 Typical value 单位 Unit@20℃
电容(pF/m) Capacitance(pF/m)	98±4	衰减 Attenuation 最大衰减应小于典型值的110% The max attenuation should be less than 110% of the typical value	1GHz	2.32
速率(%) Velocity(%)	70±2		2GHz	3.27
阻抗(Ω) Impedance(Ω)	50±2 @1ns		3GHz	4.01
电压驻波比 Voltage standing wave ratio	≤1.3 @0-6GHz		4GHz	4.94
	≤1.4 @6-8GHz		5GHz	5.17
	≤1.5 @8-10GHz		6GHz	5.69
			7GHz	6.41
			8GHz	7.04
			9GHz	7.65
			10GHz	8.07
可靠性 Dependability				
项目 Item	单位 Unit	标准值 Standard value		
最小弯曲半径(一次/重复) Min.bending radius (static /repeated)	mm	4 / —		
工作温度范围 Operating temperature	℃	-55~+125		
包装 Packing				
项目 Item	单位 Unit	标准值 Standard value		
包装方式 Packing mode	/	纸桶 Paper spool		
每桶长度 The length of each spool	m	500	1000	
每桶接头数 / 每段最短长度 Connectors per spool / The shortest length of each root	No. / m	≤3 / ≥10	≤5 / ≥10	
注意事项 Matters needing attention				
储存条件 Condition of storage	温度: 30℃以下; 湿度: 20%~65%。 Temperature:Under 30℃;Humidity:20%~65%.			
最佳储存周期 Optimal storage period	2个月; 电缆存放2个月以上可靠性会降低, 但电性能特性不受影响。在夏季高温高湿环境下电缆剥离后尽快加工。 Two months; if the cable is stored for more than two months,the reliability will be reduced, but the electrical characteristics will not be affected. The cable needs to be processed as soon as possible after stripping,under high temperature and high humidity in summer.			
加工温度 Processing temperature	氟塑料在260℃, 可短时间承受; 300℃以上分子链常带有弱端基会分解; 400℃以上发生显著的热分解。 Fluoroplastic can endure short time at 260℃;Molecular with terminal groups will decompose over 300℃ and significantly decompose over 400℃.			
氟塑料收缩 Fluoroplastic shrink	材料固有特性, 绝缘收缩: 0.30mm以下; 护套收缩: 0.50mm以下。 The material inherent properties,insulation shrink<0.30mm;Jacket shrink<0.50mm.			
结构层位移 Structural layer displacement	当电缆长度低于50mm时, 绝缘层和护套层易发生位移。 The insulation layer and jacket layer are easily displaced,when the cable length is less than 50mm.			
其他加工方式 Other processing methods	若有特殊加工方式, 请与供方协商后使用。 If there is a special processing methods,please consult with supplier before using.			

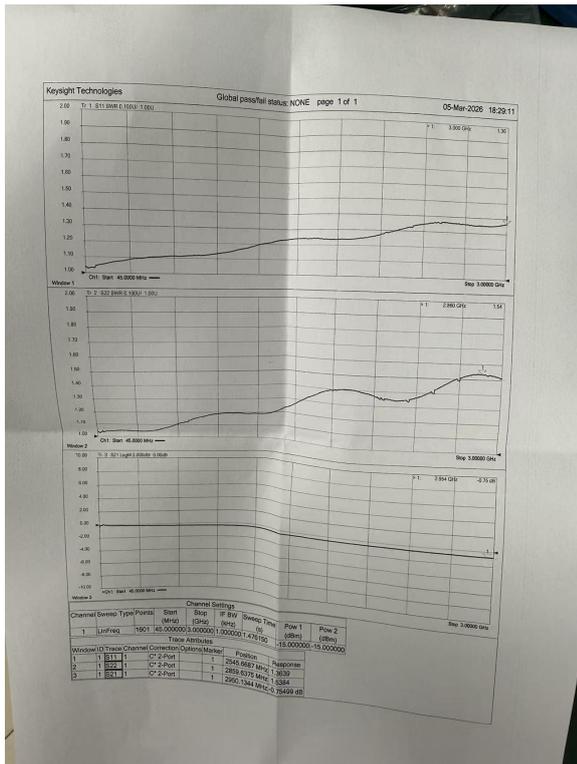
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3.Outline Drawing:



4. Testing



5.Product Outline

