



# JE 系列 Porous Series

## 稳幅稳相微孔同轴电缆

- \*Low Loss
- \*Phase & Amplitude Stable
- \*Excellent VSWR

### 电缆特点

- \*最高工作频率DC-67GHz
- \*温度稳相500PPM
- \*机械稳相 $\pm 4^\circ$
- \*幅度稳定性 $\pm 0.05\text{dB}$
- \*低损耗及优良的驻波
- \*阻抗一致性优



### Features & Advantages

- \*Operating Frequency up to DC-67GHz
- \*Phase Stable 500PPM
- \*Mechanical Phase Stable $\pm 4^\circ$
- \*Amplitude Stability $\pm 0.05\text{dB}$
- \*Low Loss
- \*Superior Shielding Effectiveness( $< -90\text{dB}$ )

### 典型应用-Applications

- PIM电缆组件
- 无线电台
- 馈电网络
- 仪器仪表
- 测试电缆
- 机柜内跳线
- 板卡之间互联

### 产品介绍-Products Instruction

JE系列电缆采用了特殊的微孔结构设计与先进的生产工艺,使得电缆在全频段DC-67Ghz有着优良的电气与机械性能指标,并具有很高的性价比,是低损耗低成本的选择方案。

电气性能方面,信号传输率高达76%,温度相位稳定性小于500PPM,阻抗公差小,可控制在0.5ohm内,并且还具有低损耗,屏蔽效率高等优点。

机械性能方面,由于电缆采用镀银铜带编织,使该款电缆有很强的抗扭能力。

环境使用方面,采用耐环境性能优质的外护套原材料使其具有使用温度范围宽、抗腐蚀性、防潮防霉、阻燃等特点。



- PIM Cable Ass.
- Within the cabinet jumper



- Board interconnection



- Feed Network
- Test cable
- Radio

# 稳幅稳相微孔同轴电缆

Low Loss Phase & Amplitude Stable Porous Coax

## 结构材料与尺寸 Material & Construction (可定制尺寸、材料、颜色等)

结构 Structure	材质 Material	JE220	JE280	JE400
1. 中心导体 (mm) Center Conductor (mm)	镀银铜 Silver Plated Copper	0.50	0.53	0.94
2. 介质 (mm) Dielectric (mm)	耦芯PFA LD FA	1.50	1.68	2.70
3. 外导体 (mm) Outer Conductor (mm)	镀银铜带 Silver Plated Copper Ribbon	1.70	1.88	2.90
4. 外屏蔽 (mm) Outer Shields (mm)	镀银铜丝 Silver Plated Copper	1.95	2.20	3.30
5. 护套 (mm) Jacket (mm)	FEP	2.20	2.80	4.00

## 主要参数指标 Specifications

主要参数指标 Specifications	JE220	JE280	JE400
工作频率 Operating Frequency Range (GHz)	67	40	40
特性阻抗 Impedance ( $\Omega$ )	50	50	50
传输速率 Vp (%)	76	76	76
介质耐压 Voltage Withstand (V,DC)	500	2000	3000
屏蔽效率 Shielding Effectiveness (dB)	<-90	<-90	>-100
静态弯曲半径 Bend Radius: Installation (mm)	11	14	19
动态弯曲半径 Bend Radius: Repeated (mm)	22	28	38
重量 Weight (g/m)	18	22	48
工作温度范围 Operating Temperature Range ( $^{\circ}\text{C}$ )	-55~125	-55~125	-55~85
温度相位 Stable Phase (PPM)	500	500	450

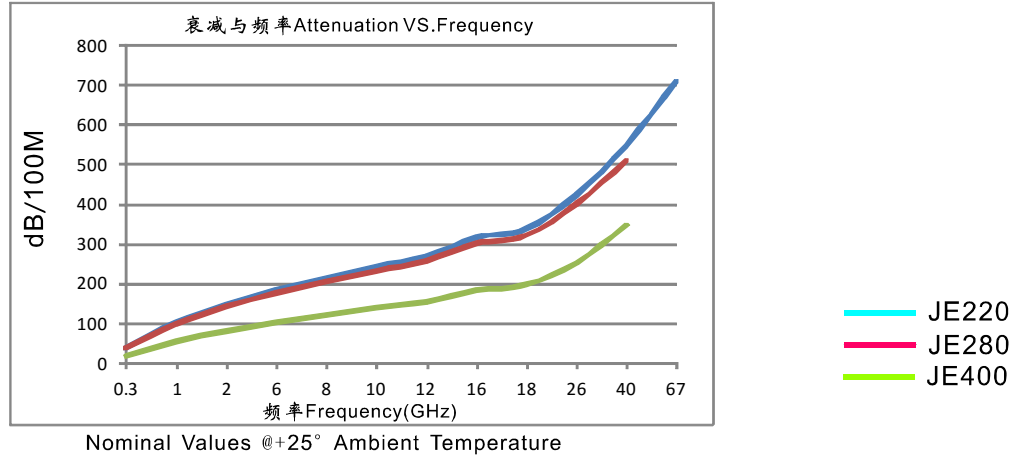


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## 衰减与频率变化曲线图 Attenuation VS. Frequency

电缆衰减/Cable Attenuation 典型值@ + 25° 环境温度



## 衰减与频率 Attenuation VS. Frequency (dB/100m)

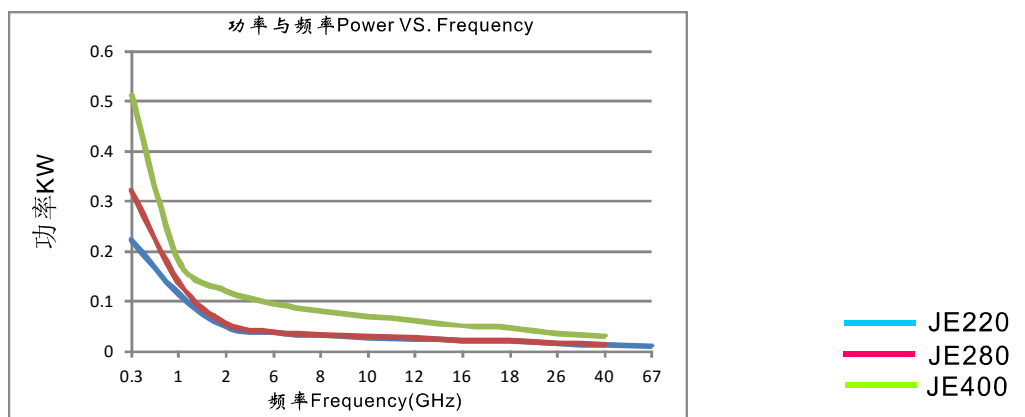
频率 (Mhz) Frequency	300	1000	2000	6000	8000	10000	12000	16000	18000	26500	40000	67000
JE220	38.1	101.8	147.2	183.3	214.6	242.9	268.9	315.9	338.4	426.05	548	759.3
JE280	36.6	97.4	140.4	174.5	204	230.5	254.9	299.3	319.8	398.7	507	
JE400	20.2	55.4	81.5	102.7	121.5	138.6	154.6	184.2	198.1	252.7	347.6	

JE220—K1=2.0750000 K2=0.0023000 JE280—K1=2.1473097 K2=0.0027887 JE400—K1=0.8856000 K2=0.0042323

其他任意频点衰减=K1\*sqrt(fMHz)+K2\*fMHz; dB/100m

## 功率与频率变化曲线图 CW Power VS. Frequency

功率定义/Power Handling: 最大值@ + 40° C的环境温度和海平面



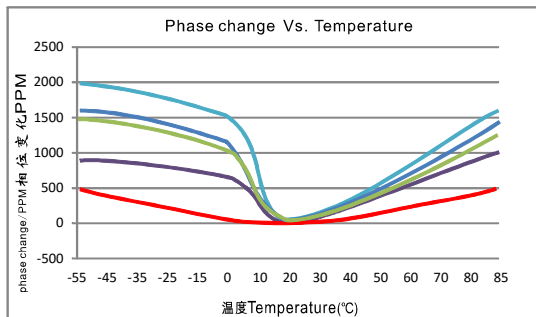
## 功率与频率 (KW) CW Power Handling vs. Frequency

频率 (Mhz) Frequency	300	1000	2000	6000	8000	10000	12000	16000	18000	26500	40000	67000
JE220	0.221	0.113	0.047	0.036	0.03	0.027	0.024	0.02	0.019	0.014	0.012	0.01
JE280	0.321	0.138	0.054	0.038	0.032	0.028	0.025	0.021	0.02	0.015	0.013	
JE400	0.512	0.181	0.121	0.095	0.08	0.069	0.062	0.051	0.047	0.036	0.031	

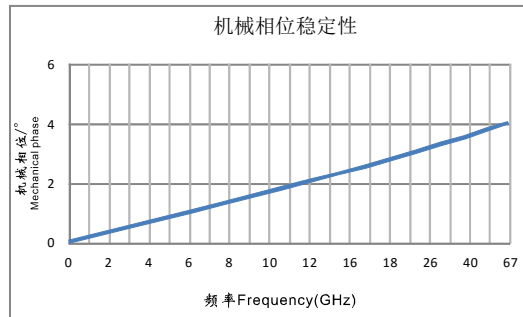
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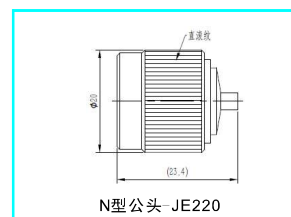
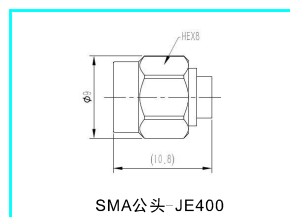
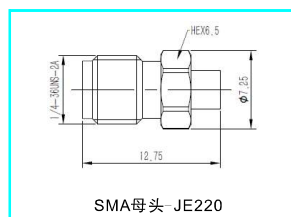
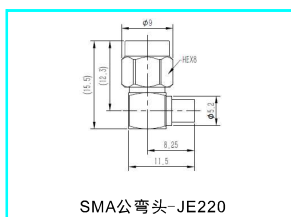
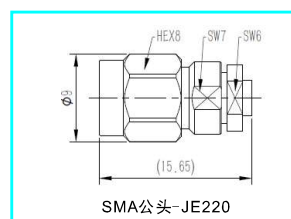
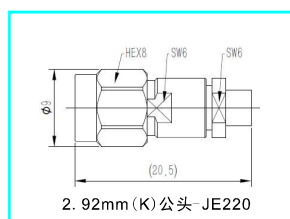
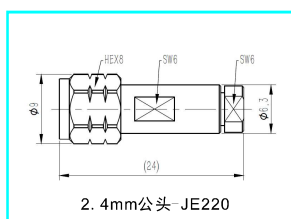
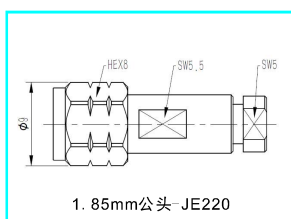
\*温度相位变化 (ppm)



\*Mechanical Phase Stability



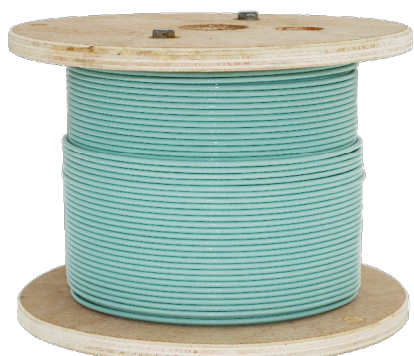
## 部分连接器尺寸图 Connector Outline Drawing



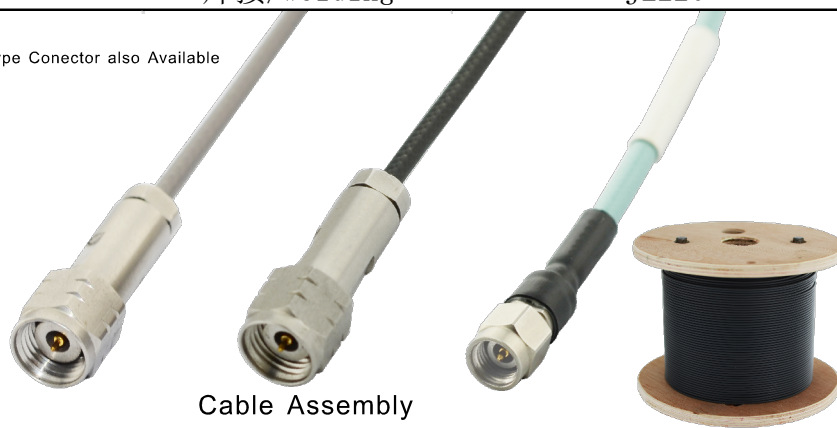
## 适配连接器 Cable Connector Type

连接器 Connector	型号 Type	材料 Material	装接方式 Assembly Type	适用电缆 Applicable to cable
SMA	SMA-XXX	不锈钢SUS-303	焊接/Welding	JE280/JE400
N	N-XXX	不锈钢SUS-303	焊接/Welding	JE400
2.92mm	29-XXX	不锈钢SUS-303	焊接/Welding	JE400
2.4mm	24-XXX	不锈钢SUS-303	焊接/Welding	JE220
1.85mm	185-XXX	不锈钢SUS-303	焊接/Welding	JE220

备注Remark:  
XXX表示电缆型号;xxx Refer to Cable Type  
其余形式连接器(如TNC、BNC、SMP等)可定制 Other Type Connector also Available



Reel Cable



Cable Assembly