

RG 316



内部导体
Inner Conductor

绝缘体
Dielectric

外部导体
Outer Conductor

护套
Jacket

型号 Model

FEP RG 316

描述 Description

(316) 高频同轴电缆 FEP(茶色)护套
(316) High Frequency coaxial cable with FEP (Brown) jacket

结构参数 Structure parameter

| | | |
|-------------------------|---|-----------|
| 内部导体 Inner Conductor | 镀银铜, 镀银铜包钢 Silver-Plated Copper, Silver-Plated Copper Clad Steel | 7x0.175mm |
| 绝缘层 Insulation Layer | 聚四氟乙烯(PTFE) Polytetrafluoroethylene(PTFE) | 1.53mm |
| 外部导体 Outer Conductor | 镀银铜线编织 Silver-Plated Copper Wire Braiding | 1.95mm |
| 护套 Jacket | 聚全氟乙丙烯 (FEP), 茶色 Fluorinated Ethylene Propylene (FEP), Brown | 2.50mm |

电气特性 Electrical Data

| | |
|--|----------------------|
| 阻抗 Impedance, nominal | 50ohms |
| 电容 Capacitance, nominal | 106pF/m |
| 延时 Signal delay, nominal | 4.7ns/m |
| 耐电压 Voltage withstand(AC) | 2000V rms/min |
| 绝缘电阻 Insulation resistance, nominal | 1500 M Ω · km |
| 传输速率 Velocity of propagation, nominal | 70% |

机械特性 Mechanical Data

| | |
|------------------------------------|-------|
| 恒定温度 Temperature rating | 150°C |
| 最小弯曲半径 Minimum bending radius | 15mm |
| 最大拉伸强度 Maximum tensile strength | 3.4kg |
| 重量 Weight of cable | 17g/m |

衰减量和功率 Attenuation and Power

| 频率数 Frequency(MHz) | 衰减量 Attenuation(dB/m) | 功率 Power(Watts CW) |
|-----------------------|--------------------------|-----------------------|
| 100 | 0.29 | 420 |
| 400 | 0.58 | 210 |
| 900 | 0.88 | 140 |
| 1000 | 0.93 | 135 |
| 1800 | 1.27 | 100 |
| 2400 | 1.46 | 78 |
| 3000 | 1.65 | 72 |
| 5000 | 2.14 | 61 |
| 6000 | 2.34 | 52 |

产品规格书

PRODUCT SPECIFICATION

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1..Electrical/电气

1.1 Impedance /阻抗

50Ω

1.2 Frequency /频率

DC-6GHz

1.3 VSWR/驻波

≤1.2

1.4 Dielectric withstanding voltage /介质耐压

1000V(rms)

1.5 Center contact resistance /中心接触电阻

≤3mΩ

1.6 Outer contact resistance /外部接触电阻

≤2mΩ

1.7 Insulation resistance /绝缘电阻

≥5000MΩ

2 Environmenta & Mechanical /环境与机械

2.1 Temperture range /温度范围

-45°~+125°

2.2 Rohs Compliant /符合RoHS

2.3 Durability /耐久性

500cycles

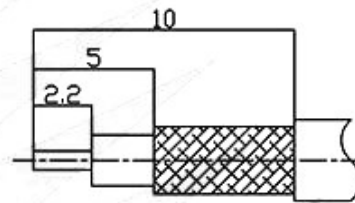
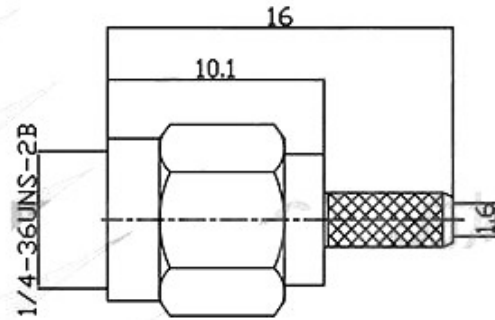
3 Material and Plating /材料和电镀

3.1 Inner Contact /内导体: Brass, Gold plated /黄铜镀金

3.2 Outer Contact /外导体: Brass, Gold plated /黄铜镀金

3.3 Insulators /绝缘体: PTFE /聚四氟乙烯

Suitable cables /适配电缆: RG316.RG174



推荐剥线尺寸
Recommended stripping size

产品型号P/N: SMA-C-J-1.5

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1. Electrical/电气

| | |
|---|-----------|
| 1.1 Impedance /阻抗 | 50Ω |
| 1.2 Frequency /频率 | DC-3GHz |
| 1.3 VSWR/驻波 | ≤1.25 |
| 1.3 Dielectric withstanding voltage /介质耐压 | 750V(rms) |
| 1.5 Center contact resistance /中心接触电阻 | ≤5mΩ |
| 1.6 Outer contact resistance/外部接触电阻 | ≤2.5mΩ |
| 1.7 Insulation resistance/绝缘电阻 | ≥1000MΩ |

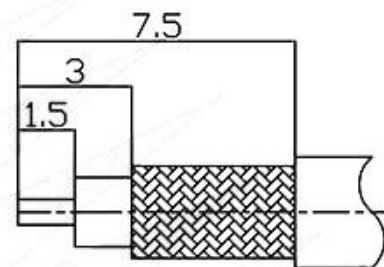
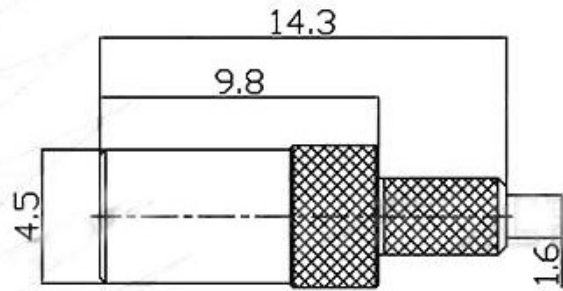
2 Environmenta & Mechanical/环境与机械

| | |
|----------------------------|------------|
| 2.1 Temperature range/温度范围 | -45°~+125° |
| 2.2 Rohs Compliant/符合RoHS | |
| 2.3 Durability/耐久性 | 500cycles |

3 Material and Plating/材料和电镀

| |
|---|
| 3.1 Inner Contact/内导体: Beryllium-copper, gold plated/铍铜镀金 |
| 3.2 Outer Contact/外导体: Brass, Gold plated/黄铜镀金 |
| 3.3 Insulators/绝缘体: PTFE/聚四氟乙烯 |

Suitable cables/适配电缆: RG316.RG174



推荐剥线尺寸

Recommended stripping size

产品型号P/N: SSMB-C-K-1.5

SMA-J

SMA公头



SSMB-KW

SSMB弯母头



频率：0-6G

线缆：镀银RG316

直径：2.55mm

长度：可订做任意长度

