

HCAHY-50-9 (1/2"S PE)

材料特性 Material Specification

| 项目 Items            | 材料 Material                        | 直径 Diameter mm |
|---------------------|------------------------------------|----------------|
| 内导体 Inner Conductor | 铜包铝 Copper Clad Aluminum           | 3.60±0.05      |
| 绝缘 Dielectric       | 物理发泡聚乙烯 Physical Foam Polyethylene | 9.50±0.30      |
| 外导体 Outer Conductor | 皱纹铜管 Corrugated Copper Tube        | 11.90±0.25     |
| 护套 Jacket           | 黑色聚乙烯 Black PE                     | 13.40±0.30     |

电气性能 Electrical performance

|                            |                       |       |
|----------------------------|-----------------------|-------|
| 阻抗 Impedance               | 50Ω±2                 |       |
| 电容 Capacitance             | 83.0 PF/m             |       |
| 速率 Velocity                | 81 %                  |       |
| 绝缘电阻 Insulation Resistance | ≥10000 MΩ•km          |       |
| 峰值功率 Peak Power Rating     | 40.0 KW               |       |
| 截止频率 Cut-off Frequency     | 10.2 GHz              |       |
| 三阶交调 PIM (2*43dBm)         | ≤-160dBc（900&1800MHz） |       |
| 电压驻波比 VSWR                 | 800-1000 MHz          | ≤1.12 |
|                            | 1000-2700 MHz         | ≤1.15 |
|                            | 2700-3800 MHz         | ≤1.18 |

机械特性 Mechanical Specifications

|                                |         |
|--------------------------------|---------|
| 单次弯曲半径 Single Bending Radius   | 27.5 mm |
| 多次弯曲半径 Repeated Bending Radius | 55.0 mm |

环境特性 Environmental Specifications

|                               |               |
|-------------------------------|---------------|
| 安装温度 Installation Temperature | -20℃~+60℃     |
| 工作温度 Operating Temperature    | -40℃~+70℃ (Y) |

在电缆 20℃衰减值 Attenuation at 20℃ cable temperature

| MHz  | dB/100m | MHz  | dB/100m |
|------|---------|------|---------|
| 150  | 4.1     | 2200 | 17.6    |
| 450  | 7.3     | 2500 | 18.6    |
| 800  | 9.9     | 2700 | 19.8    |
| 900  | 10.6    | 3000 | 21.6    |
| 1800 | 15.6    | 3800 | 23.1    |
| 2000 | 16.5    | /    | /       |

衰减是典型值，最大值控制在典型值的 105%以内。

The attenuation is typical value, Maximum value shall be 105% of the nominal attenuation value.

