



## Semi-Rigid .047 Cable Physical Characteristics

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| Center Conductor           | 0.29±0.02mm Silver Plated Copper Clad Steel Wire |
| Dielectric Diameter        | 0.95±0.05mm PTFE                                 |
| Outer Shield               | 1.2±0.05mm TC                                    |
| Min. Bending Radius Static | 4.2mm                                            |

## Semi-Rigid .047 Cable Electrical Characteristics

|                                        |                |      |
|----------------------------------------|----------------|------|
| Impedance                              | 50 ± 2ohms     |      |
| Capacitance                            | 95 pF/m (nom.) |      |
| Operating Frequency                    | 20GHz          |      |
| Operating Temperature                  | -55~125℃       |      |
| <b>Maximum Attenuation(dB/m) @</b><br> | 0.5GHz         | 0.79 |
|                                        | 1GHz           | 1.13 |
|                                        | 5GHz           | 2.59 |
|                                        | 10GHz          | 3.74 |
|                                        | 20GHz          | 5.44 |

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss :  $0.06 \times \sqrt{\text{頻率}}$  ( 2 端都有接頭則需將此數值 x2 )
2. 組裝 Loss : 0.12 ( 2 端都有組裝則需將此數值 x2 )
3. 線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss

## Specifications:



### Material:

#### 1.SMA Connector:

Center Pin:Brass/Gold

Insulator:Teflon

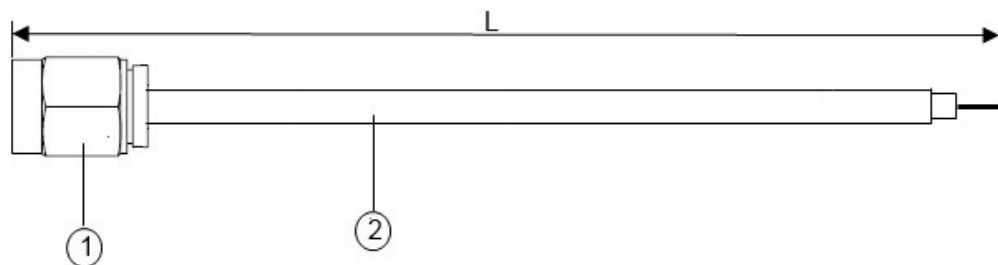
Body:Brass/Gold

#### 2.Cable:

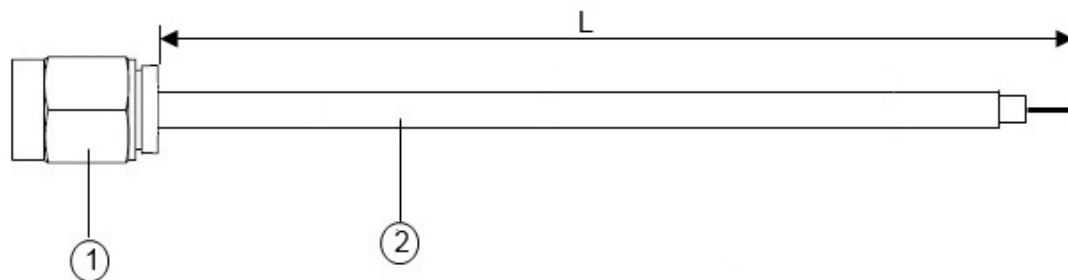
Semi-Rigid .047 Coaxial Cable

Stripped Size:Customized

長度含接頭:



長度不含接頭:



| General Tolerance                                                                     |      |       |           |   Woken Technology Inc. |                                             |
|---------------------------------------------------------------------------------------|------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 0.5~10mm                                                                              |      | ±0.2  |           | CODE                                                                                                                                                                                              | DWG TITLE<br><br>SMA(M) for Semi-Rigid .047 |
| 11~100mm                                                                              |      | ±5.0  |           |                                                                                                                                                                                                   |                                             |
| 101~500mm                                                                             |      | ±10.0 |           |                                                                                                                                                                                                   |                                             |
| 501~1000mm                                                                            |      | ±15.0 |           |                                                                                                                                                                                                   |                                             |
| 1001~2000mm                                                                           |      | ±20.0 |           |                                                                                                                                                                                                   |                                             |
| 2000~5000mm                                                                           |      | ±50.0 |           |                                                                                                                                                                                                   |                                             |
| UNLESS OTHERWISE SPECIFIED                                                            |      |       |           | SIZE<br>A4                                                                                                                                                                                        | DWG NO.<br><br>00100A2G200XXX               |
| THIRD ANGLE PROJECTION                                                                |      | DRAWN | Terence   |                                                                                                                                                                                                   |                                             |
|  | ENGR | Jack  | 08/03/10' |                                                                                                                                                                                                   |                                             |
|                                                                                       | APVD | James | 08/03/10' |                                                                                                                                                                                                   |                                             |
|                                                                                       |      |       |           | REV<br>A                                                                                                                                                                                          |                                             |