



#### MHFC PLUG R/A NOTES:

##### 1. MATERIAL:

- ① SHELL - PHOSPHOR BRONZE,  $t=0.20\pm0.02\text{mm}$  or Equivalent
- ② CONTACT - PHOSPHOR BRONZE,  $t=0.12\pm0.02\text{mm}$  or Equivalent
- ③ HOUSING - PBT, BLACK, UL94V-0

##### 2. PLATING:

- ① SHELL - UNDERPLATED 50 $\mu$  MIN NICKEL ALL OVER, 3 $\mu$  MIN GOLD IN PLATED AREA.
- ② CONTACT - UNDERPLATE 50 $\mu$  MIN Ni ALL OVER, 3 $\mu$  MIN GOLD IN PLATING ZONE.

#### Specifications

| Item                        | Specification                                     | Conditions          |
|-----------------------------|---------------------------------------------------|---------------------|
| Contact resistance          | Center: 20 m ohms max.<br>Outside: 10 m ohms max. | 10 mA max.          |
| Insulation resistance       | 500 M ohms min.                                   | 100 V DC            |
| Withstanding voltage        | No flashover or insulation breakdown.             | 200 V AC / 1 minute |
| V.S.W.R.                    | 1.3 Max at 0.1~3.0GHz, 1.5Max at 3.0-6.0 GHz      | Up to 6GHz          |
| Operating temperature range | -40°C to +90°C                                    |                     |
| Nominal impedance           | 50 ohms                                           |                     |

#### SPECIFICATION

|            |                                                                                                           |                   |                                    |
|------------|-----------------------------------------------------------------------------------------------------------|-------------------|------------------------------------|
| STYLE      | 105°C 30V<br>UL1979                                                                                       | DOCUMENT NO:      |                                    |
| SIZE       | RG-178B/U                                                                                                 | ESTABLISHED DATE: | 2007/11/27                         |
| STANDARD   | MIL-C-17                                                                                                  |                   |                                    |
| Conductor  | Size                                                                                                      | AWG               | 30                                 |
|            | Material                                                                                                  | —                 | Silver-Coated Copper<br>Clad Steel |
|            | Conductors No.                                                                                            | —                 | 7                                  |
|            | Conductors Size                                                                                           | mm                | 0.102                              |
| Insulation | O.D.                                                                                                      | mm                | 0.31                               |
|            | Average Thickness                                                                                         | mm                | 0.28                               |
|            | Diameter                                                                                                  | mm                | 0.86 $\pm$ 0.03                    |
|            | Material                                                                                                  | —                 | FEP                                |
| Braid      | Color                                                                                                     | —                 | Clear                              |
|            | Material                                                                                                  | —                 | Silver-Coated Copper               |
|            | Construction                                                                                              | mm                | 16 / 3 / 0.10                      |
|            | Coverage                                                                                                  | %                 | 95                                 |
| Jacket     | Average Thickness                                                                                         | mm                | 0.25                               |
|            | Diameter                                                                                                  | mm                | 1.80 $\pm$ 0.05                    |
|            | Material                                                                                                  | —                 | FEP                                |
|            | Color                                                                                                     | —                 | Brown                              |
| Drawing    | UBIQUITOUS CORP.<br> |                   |                                    |

#### SPECIFICATION

| Electrical & Physical Properties |        |                       |                                            |        |        |      |
|----------------------------------|--------|-----------------------|--------------------------------------------|--------|--------|------|
| Item                             |        | RG-178B/U             |                                            |        |        |      |
| Rating Temperature               |        | 105°C 30V             |                                            |        |        |      |
| Conductor Resistance             |        | 838 OHM/KM/20°C MAX.  |                                            |        |        |      |
| Insulation Resistance            |        | 3000 MEGA OHM-KM MIN. |                                            |        |        |      |
| Dielectric Strength              |        | AC 1.0 KV/Minute      |                                            |        |        |      |
| Spark Test                       |        | 2.5 KV                |                                            |        |        |      |
| Insulation                       | Unaged | Tensile Strength      | 2500 PSI MIN.( 1.76 Kg / mm <sup>2</sup> ) |        |        |      |
|                                  |        | Elongation            | 200% MIN.                                  |        |        |      |
|                                  | Aged   | Tensile Strength      | UNAGED MIN 75%(168HRS×232°C)               |        |        |      |
|                                  |        | Elongation            | UNAGED MIN 75%(168HRS×232°C)               |        |        |      |
| Jacket                           | Unaged | Tensile Strength      | 2500 PSI MIN.( 1.76 Kg / mm <sup>2</sup> ) |        |        |      |
|                                  |        | Elongation            | 200% MIN.                                  |        |        |      |
|                                  | Aged   | Tensile Strength      | UNAGED MIN 75%(168HRS×232°C)               |        |        |      |
|                                  |        | Elongation            | UNAGED MIN 75%(168HRS×232°C)               |        |        |      |
| Nom. Impedance                   |        | 50 Ohms               |                                            |        |        |      |
| Nom. Capacitance                 |        | 95.8 pF/m             |                                            |        |        |      |
| Nom. Vel. of Prop.               |        | 69.5%                 |                                            |        |        |      |
| VSWR (0 – 6 GHz)                 |        | Max 1.3               |                                            |        |        |      |
| THERMAL SHOCK                    |        | Max 1mm at 232°C/1HR  |                                            |        |        |      |
| BEND RADIUS                      |        | Min 9mm               |                                            |        |        |      |
| Attenuation (dB/100m)            | 100MHz | 1GHz                  | 1.8GHz                                     | 2.4GHz | 5.2GHz | 6GHz |
|                                  | 46     | 155                   | 295                                        | 340    | 505    | 550  |

#### RoHS Compliant

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DRAWING BY CY

CHECKED BY GENIUS

UNIT / mm

SCALE 1 : 1

DATE

SIZE A4

PPOJECTION 

X.  $\pm$   
.X  $\pm$   
.XX  $\pm$   
.XXX  $\pm$   
ANG  $\pm$

照片框

#### ORDER INFORMATION

MHF2-1R1R178-M40C-LF

SERIES

LEADFREE

400mm  
MALE TO MALE

RF COAXIAL CABLE WITH O/D  $\phi$ 1.78mm

RT/RT

DESCRIPTION: