

# CAVITY MULTIPLEXER

## PART NO. : WV-6MUL-OT-02

### ◆ APPLICATION

> 6 Multi Band System

### ◆ FEATURE

> High Reliability  
> **RoHS Compliant**

### ◆ ELECTRICAL SPECIFICATION

| ITEM                    | SPECIFICATION |                  |             |                  |             |                  |             |                  |             |                  |             |                  |
|-------------------------|---------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|
| Frequency Range         | P-GSM900      |                  |             |                  | GSM1800     |                  |             |                  | UMTS        |                  |             |                  |
| Direction               | UL            |                  | UL          |                  | UL          |                  | DL          |                  | UL          |                  | DL          |                  |
| Frequency Range(MHz)    | 890~915       |                  | 935~960     |                  | 1710~1785   |                  | 1805~1880   |                  | 1920~1980   |                  | 2110~2170   |                  |
| Passband Insertion Loss | 1.7dB Max     |                  | 1.7dB Max   |                  | 1.7dB Max   |                  | 1.7dB Max   |                  | 1.5dB Max   |                  | 1.5dB Max   |                  |
| Passband Ripple(P-P)    | 1.2dB Max     |                  | 1.2dB Max   |                  | 1.2dB Max   |                  | 1.2dB Max   |                  | 1.2dB Max   |                  | 1.2dB Max   |                  |
| Passband Return Loss    | 15dB Min      |                  | 15dB Min    |                  | 15dB Min    |                  | 15dB Min    |                  | 15dB Min    |                  | 15dB Min    |                  |
| Attenuation             | Freq. (MHz)   | Atten [dB] (min) | Freq. (MHz) | Atten [dB] (min) | Freq. (MHz) | Atten [dB] (min) | Freq. (MHz) | Atten [dB] (min) | Freq. (MHz) | Atten [dB] (min) | Freq. (MHz) | Atten [dB] (min) |
|                         | -             | -                | 890-915     | 100              | 890-915     | 100              | 890-915     | 100              | 890-915     | 100              | 890-915     | 100              |
|                         | 935-960       | 100              | -           | -                | 935-960     | 100              | 935-960     | 100              | 935-960     | 100              | 935-960     | 100              |
|                         | 1710-1785     | 100              | 1710-1785   | 100              | -           | -                | 1710-1785   | 100              | 1710-1785   | 100              | 1710-1785   | 100              |
|                         | 1805-1880     | 100              | 1805-1880   | 100              | 1805-1880   | 100              | -           | -                | 1805-1880   | 100              | 1805-1880   | 100              |
|                         | 1920-1980     | 100              | 1920-1980   | 100              | 1920-1980   | 100              | 1920-1980   | 100              | -           | -                | 1920-1980   | 100              |
|                         | 2110-2170     | 100              | 2110-2170   | 100              | 2110-2170   | 100              | 2110-2170   | 100              | 2110-2170   | 100              | -           | -                |

### ◆ GENERAL ELECTRICAL SPECIFICATION

| ITEM                                                                                             | SPECIFICATION  |
|--------------------------------------------------------------------------------------------------|----------------|
| IN/OUT Impedance                                                                                 | 50[ohms]       |
| Power                                                                                            | 20W CW         |
| Minimum Isolation between DL and UL ports within A service in the center Freq. between DL and UL | 100dB Critical |
| Attenuation in the band 2220[MHz] to 2600[MHz] in all ports to the common port (Antenna port)    | 50dB           |

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## ◆ ENVIRONMENTAL SPECIFICATION

| ITEM                        | SPECIFICATION  |
|-----------------------------|----------------|
| Operating Temperature Range | -20°C to +70°C |

## ◆ MECHANICAL SPECIFICATIONS

| ITEM               | SPECIFICATION                                                      |
|--------------------|--------------------------------------------------------------------|
| Dimension          | 220.0 x 140.0 x 67.0 (unit:mm)                                     |
| Mounting Points    | See Outline Drawing                                                |
| RF Connector       | ANT Port : N Female Connector<br>Other Port : SMA Female Connector |
| Connector Position | See Outline Drawing                                                |
| Finish             | Black color epoxy coating                                          |

## ◆ OUTLINE DRWAING

