

# CAVITY DUPLEXER

**PART NO. : WVC-4475D4975-250M01**

◆ APPLICATION

> for C-Band System

◆ FEATURE

> High Reliability  
> **RoHS Compliant**

◆ ELECTRICAL SPECIFICATION

| ITEM                            | SPECIFICATION                                                                                                     |                                  |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Frequency Range                 | Uplink :<br>4350MHz ~ 4600MHz                                                                                     | Downlink :<br>4800MHz ~ 5150MHz  |
| Insertion Loss including ripple | 0.7dB Typ.<br>0.9dB Max                                                                                           | 0.7dB Typ.<br>0.9dB Max          |
| Passband Ripple                 | ± 0.2dB Max                                                                                                       | ± 0.3dB Max                      |
| Return Loss                     | 18dB Min                                                                                                          | 18dB Min                         |
| Rejections out of band          | 80dBc Min @ DC ~ 4250MHz<br>80dBc Min@5.25GHz~10.5GHz<br>45dBc Min@10.5GHz~15.75GHz<br>25dBc Min @4.65GHz/4.75GHz |                                  |
| Isolation between filters       | 90dBc Min<br>@ 4800MHz ~ 5150MHz                                                                                  | 90dBc Min<br>@ 4350MHz ~ 4600MHz |
| Crossover Frequency             | 4700MHz                                                                                                           |                                  |
| Crossover Attenuation           | 50dBc Min                                                                                                         |                                  |
| Power Handling(CW)              | 40W CW Max (Avg)                                                                                                  |                                  |
| In/Out Impedance                | 50 Ohms nominal                                                                                                   |                                  |

◆ ENVIRONMENTAL SPECIFICATIONS

| ITEM                  | SPECIFICATION                                 |
|-----------------------|-----------------------------------------------|
| Operating Temperature | -50°C to +60°C                                |
| Storage Temperature   | -50°C to +85°C                                |
| Altitude              | 40,000 feet                                   |
| Vibrations            | MIL-STD-810F, Method 514.5 6 Grms             |
| Shock                 | MIL-STD-810F, Method 516.5, Proc I 20g/11msec |

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## MECHANICAL SPECIFICATIONS

| ITEM         | SPECIFICATION                    |
|--------------|----------------------------------|
| Dimension    | 166.0 mm x 148.0 mm x 19.0 mm    |
| RF Connector | All Ports : SMA Female Connector |
| Finish       | Black color epoxy coating        |

## OUTLINE DRAWING



