The 1:1 Redundant Switchover Unit (RSU) is used with two units, one online (Unit A) and the second in a standby mode (Unit B). A fault condition in the online Unit A, or an operator generated command, will switch the standby Unit B to the online position and remove Unit A from the transmission path. DC power is diode summed from each converter.

### FEATURES
- Automatic/manual control from both local and remote control
- Front-panel display
- RS-485/RS-422 and Ethernet remote control (Telnet, SNMP and embedded web server)
- Firmware updates through Ethernet port
- Off-line or standby output
- Switch position indicators
- Time and date-stamped activity log
- 2.92 mm connectors above 18.4 GHz
- CE certification

### 1:1 SWITCHOVER UNIT SINGLE TRANSFER SWITCH MODEL

<table>
<thead>
<tr>
<th>FREQUENCY RANGE (GHz)</th>
<th>CONNECTORS</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.95 to 18.4</td>
<td>SMA</td>
<td>RSU-S-TR</td>
</tr>
<tr>
<td>18.4 to 31</td>
<td>2.92 mm</td>
<td>RSU-K-TR</td>
</tr>
</tbody>
</table>

### 1:1 SWITCHOVER UNIT DUAL TRANSFER SWITCH MODEL

<table>
<thead>
<tr>
<th>FREQUENCY RANGE (GHz)</th>
<th>CONNECTORS</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.95 to 18.4</td>
<td>SMA</td>
<td>RSU-S/S-TR</td>
</tr>
<tr>
<td>0.95 to 18.4/18.4 to 31</td>
<td>SMA/2.92 mm</td>
<td>RSU-S/K-TR</td>
</tr>
<tr>
<td>18.4 to 31</td>
<td>2.92 mm</td>
<td>RSU-K/K-TR</td>
</tr>
</tbody>
</table>
REDUNDANT SWITCHOVER SYSTEMS

RF SPECIFICATIONS

<table>
<thead>
<tr>
<th>FREQUENCY (GHz)</th>
<th>INSERTION LOSS (MAXIMUM, dB)</th>
<th>AMPLITUDE FLATNESS (MAXIMUM, dB)</th>
<th>RETURN LOSS (MINIMUM, dB)</th>
<th>ISOLATION (MINIMUM, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.95 to 3</td>
<td>0.2</td>
<td>0.2</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>3 to 8</td>
<td>0.3</td>
<td>0.3</td>
<td>17</td>
<td>70</td>
</tr>
<tr>
<td>8 to 12.4</td>
<td>0.4</td>
<td>0.3</td>
<td>15</td>
<td>60</td>
</tr>
<tr>
<td>12.4 to 18.4</td>
<td>0.5</td>
<td>0.5</td>
<td>13</td>
<td>60</td>
</tr>
<tr>
<td>18.4 to 26.5</td>
<td>0.7</td>
<td>0.5</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td>26.5 to 31</td>
<td>0.9</td>
<td>0.5</td>
<td>10</td>
<td>55</td>
</tr>
</tbody>
</table>

Note: RF specifications apply to a single switch.

GENERAL SPECIFICATIONS

PRIMARY POWER REQUIREMENTS
Voltage...........................................DC power from L3 Narda-MITEQ third rack BUC and BDC

PHYSICAL
Weight ...........................................4.5 lb. [2 kg] nominal
Dimensions.................................5.70” [144.8 mm] x 1.48” [37.6 mm] x 18” [457.2 mm] (excluding connectors)
Connectors
RF ..................................Refer to model number table on page one
Redundancy interface ........DE-15S (mating cable supplied)
Status interface ..............DE-9S for RS-422/RS-485
Ethernet interface............RJ-45 female

ENVIRONMENTAL
Operating
Temperature .........................0 °C to 50 °C
Relative humidity ..............Up to 95% at 30 °C
Atmospheric pressure ........Up to 10,000 feet
Nonoperating
Temperature ....................-50 °C to +70 °C
Relative humidity ..................Up to 95% at 45 °C
Atmospheric pressure ........Up to 40,000 feet
Shock and vibration ..........Normal handling by commercial carriers

ACCESSORIES
Third rack-mount frame
Model number ..................OL-TR3-20
Weight ...................................1.5 lb. [0.68 kg] nominal
Dimensions.......................19” [482.6 mm] x 1.75” [44.5 mm] x 20” [508.0 mm]

Note: For literature describing local control (front panel) and remote control (bus control), refer to L3 Narda-MITEQ Technical Note 25T067.

TYPICAL REAR-PANEL VIEW

The material presented in this datasheet was current at the time of publication. L3 Narda-MITEQ’s continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current.

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