

# L-band Multiplexer

850 - 2150 MHz

850-2150 MHz  
Operating frequency  
range. L-Band ready



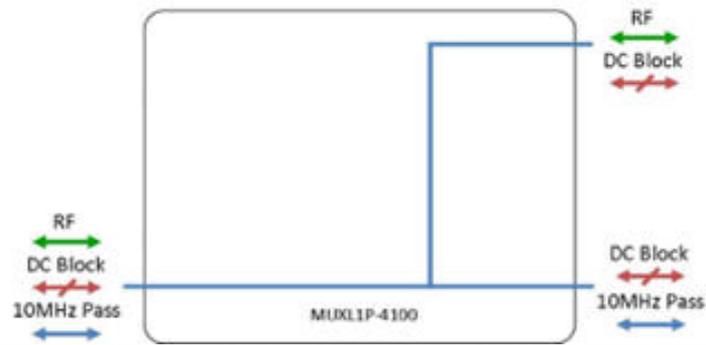
**Compact**  
Housed in rugged compact  
enclosure

**Flexible Mounting**  
Tapped screw & through  
hole mounting options

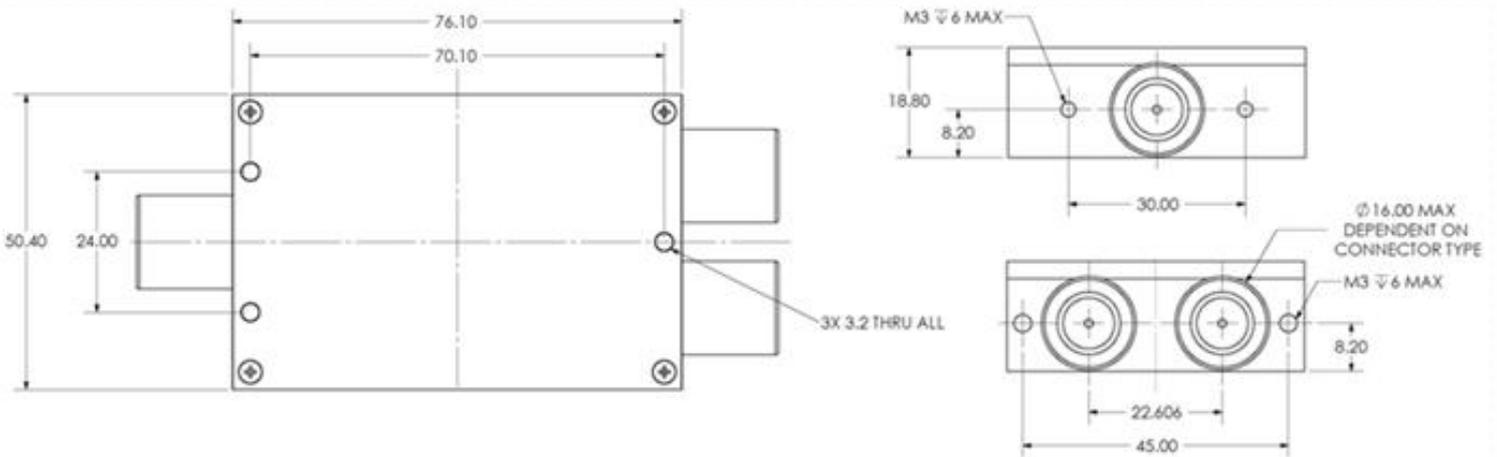
| RF Parameters            |                              |            |         |            |
|--------------------------|------------------------------|------------|---------|------------|
| Model Variation          | S5S5S5                       | N5N5N5     | B5B5B5  | F7F7F7     |
| Frequency Range          | 850 - 2150 MHz               |            |         |            |
| RF Connectors            | 50Ω SMA                      | 50Ω N-Type | 50Ω BNC | 75Ω F-Type |
| Common Port:             | -                            |            |         |            |
| Mean Insertion Loss (dB) | ≤0.4                         |            | ≤0.5    |            |
| Flatness (dB)            | ± 0.1                        | ± 0.1      | ± 0.2   | ± 0.2      |
| Return Loss (dB)         | 20                           | 18         | 16      | 12         |
|                          | 14                           | 14         | 12      | 8          |
| L-band Port:             | -                            |            |         |            |
| Return Loss (dB)         | 20                           | 18         | 16      | 12         |
|                          | 14                           | 14         | 12      | 8          |
| 10MHz:                   | -                            |            |         |            |
| Mean Insertion Loss (dB) | ≤0.2                         |            | ≤0.3    |            |
| Isolation (dB)           | Typical                      |            | 25      | 20         |
| Max Operating Parameters |                              |            |         |            |
| Input RF Power           | 5W (total RF power)          |            |         |            |
| DC Voltage               | 24V                          |            |         |            |
| Physical & Environmental |                              |            |         |            |
| Operating Temperature    | -20°C to +55°C               |            |         |            |
| Storage Temperature      | -20°C to +85°C               |            |         |            |
| Location                 | Indoor use only              |            |         |            |
| Humidity                 | 85% non-condensing (maximum) |            |         |            |
| Altitude                 | 10,000ft (maximum)           |            |         |            |

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

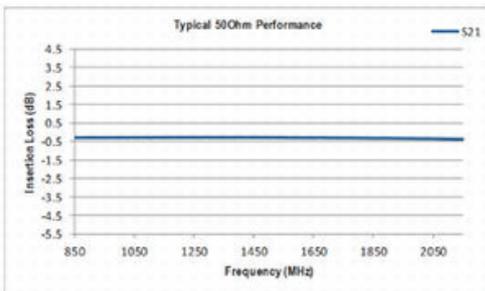
## Diagram



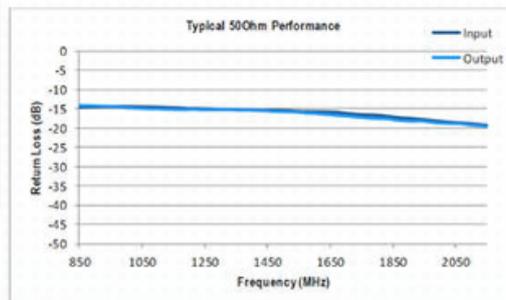
## Physical Dimensions (mm)



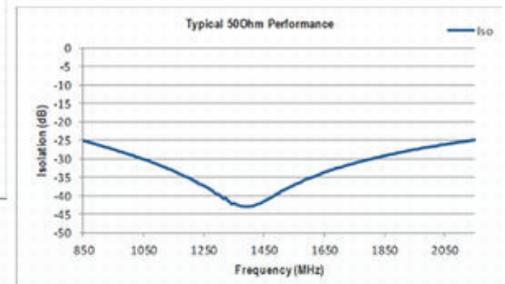
## Test Plots



Insertion Loss (dB)



Return Loss (dB)



Isolation (dB)

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