

## ViaLiteHD® - L-Band 10 MHz Diplexer

### L-Band 10 MHz Diplexer

- 50 Ohm SMA
- DC pass through
- 10 MHz Diplexer
- 1 W forward power
- 1U 19" Shelf
- 1:8 Split
- Save chassis card space



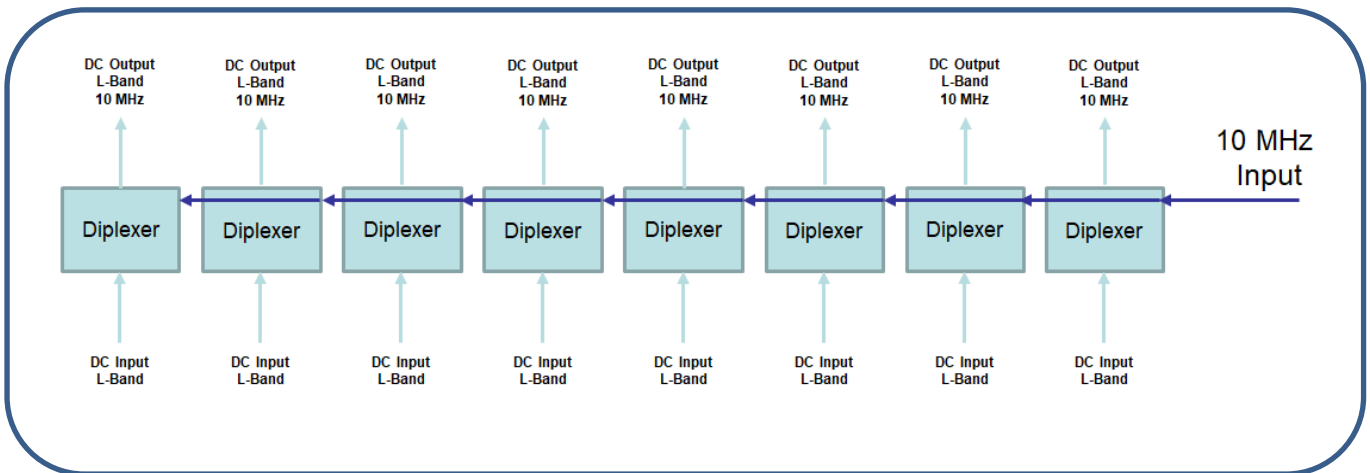
The **ViaLiteHD** L-Band 10 MHz RF Diplexer has been designed to distribute a single 10 MHz reference frequency. With low insertion loss, this compact high quality diplexer can be applied to a multitude of applications such as teleport sites, operations centers and VSAT broadcast operations.

#### Applications

- Satcom deployments
- Redundancy systems
- Long distance link systems
- Military communications
- Reference Frequency distribution

#### Related products

- HRD- L-Band Splitter
- L-Band chassis cards
- 3U Chassis
- 1:2 x 13 way RF Splitter
- RF Switches & Splitters



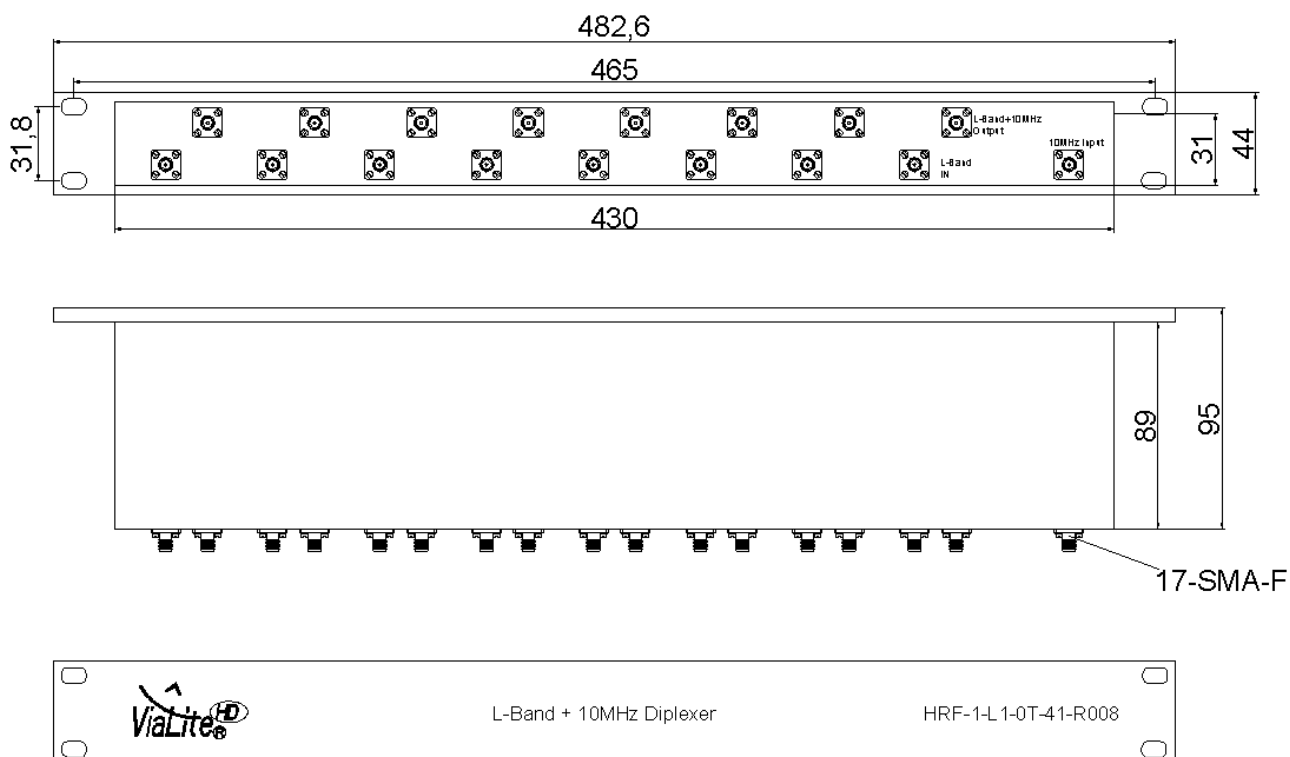
## Specifications

Model number	HRF-1-L1-0T-41-R008	
Description	Band 1	Band 2
Frequency range	700-2450 MHz	5-15 MHz
Insertion loss	≤0.5 dB	≤10 dB
VSWR	≤1.25	
Rejection	≥40 dB @ 5-15 MHz	≥40 dB @ 700-2500 MHz
Phase balance	≤±2°	
Isolation	≥60 dB @ Between each filter	
Power	≤1 W CW	
Connector	SMA	
DC Pass	All L-band +10 MHz output ports	
Working temperature	-55 °C to +85 °C	

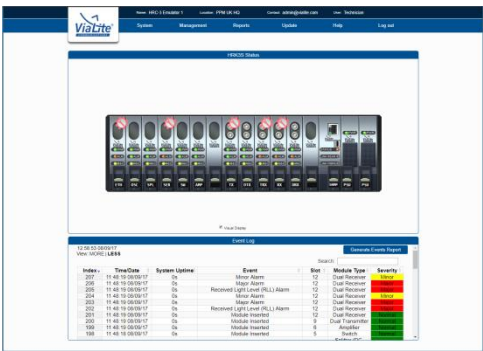
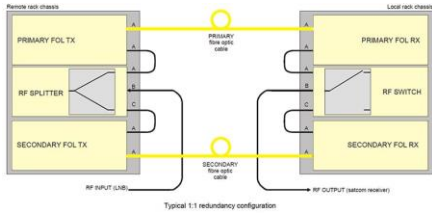


## Popular products

HRF-1-L1-0T-41-R008  
RF Splitter, L-Band & 10 MHz Diplexer, 50 Ohm, SMA, No Optical, 1U, 8 Way

## Connector positioning



## Accessories

Type	Key features																																																																													
<h3>SNMP/Web Browser Card</h3>  <p>The screenshot shows a web browser interface for the ViaLiteHD system. At the top, there are navigation tabs: System, Management, Reports, Update, Help, and Log out. Below this is a 'FOLIO Status' section with a visual representation of a rack of modules. At the bottom, there is an 'Event Log' table with columns for Index, TimeDate, System Uptime, Event, Slot, Module Type, and Severity.</p> <table border="1" data-bbox="220 584 571 674"> <thead> <tr> <th>Index</th> <th>TimeDate</th> <th>System Uptime</th> <th>Event</th> <th>Slot</th> <th>Module Type</th> <th>Severity</th> </tr> </thead> <tbody> <tr> <td>257</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Minor Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>256</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Minor Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>255</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Received Light Level (PLL) Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>254</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Minor Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>253</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Minor Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>252</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Received Light Level (PLL) Alarm</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>251</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Module Inserted</td> <td>12</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>250</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Module Inserted</td> <td>8</td> <td>Dual Receiver</td> <td>Warning</td> </tr> <tr> <td>249</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Module Inserted</td> <td>9</td> <td>Receiver</td> <td>Warning</td> </tr> <tr> <td>139</td> <td>11/4/10 08:00:17</td> <td>On</td> <td>Module Inserted</td> <td>8</td> <td>Switch</td> <td>Warning</td> </tr> </tbody> </table>	Index	TimeDate	System Uptime	Event	Slot	Module Type	Severity	257	11/4/10 08:00:17	On	Minor Alarm	12	Dual Receiver	Warning	256	11/4/10 08:00:17	On	Minor Alarm	12	Dual Receiver	Warning	255	11/4/10 08:00:17	On	Received Light Level (PLL) Alarm	12	Dual Receiver	Warning	254	11/4/10 08:00:17	On	Minor Alarm	12	Dual Receiver	Warning	253	11/4/10 08:00:17	On	Minor Alarm	12	Dual Receiver	Warning	252	11/4/10 08:00:17	On	Received Light Level (PLL) Alarm	12	Dual Receiver	Warning	251	11/4/10 08:00:17	On	Module Inserted	12	Dual Receiver	Warning	250	11/4/10 08:00:17	On	Module Inserted	8	Dual Receiver	Warning	249	11/4/10 08:00:17	On	Module Inserted	9	Receiver	Warning	139	11/4/10 08:00:17	On	Module Inserted	8	Switch	Warning	<ul style="list-style-type: none"> <li>• Easy to use graphical user interface (GUI)</li> <li>• Real time monitoring of card performance</li> <li>• Alarm monitoring and event logging</li> <li>• Control of gain adjustment</li> <li>• Compatible with all <b>ViaLiteHD</b> rack chassis and cards</li> <li>• Easy integration with network management systems (NMS) using management information base (MIB) tables</li> <li>• Actively manage redundancy switching</li> <li>• New RF cards can be automatically reprogrammed with the previous card parameters</li> <li>• Remote SNMP to local SNMP connection via optical fiber</li> <li>• Provides remote LAN 10/100 Ethernet link</li> </ul>
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<h3>Dual Redundancy</h3>  <p>The diagram illustrates a 'Typical 1:1 redundancy configuration'. It shows two parallel paths for L-Band signals. On the left, 'Primary 10U chassis' contains a 'PRIMARY FOL TX' and a 'SECONDARY FOL TX'. These are connected to an 'RF SPLITTER'. On the right, 'Leaf rack chassis' contains a 'PRIMARY FOL RX' and a 'SECONDARY FOL RX', connected to an 'RF SWITCH'. 'PRIMARY Time split cable' and 'SECONDARY Time split cable' connect the RF SPLITTER to the RF SWITCH. The RF SWITCH is labeled 'RF OUTPUT (station receiver)'. Labels include 'RF INPUT (LNB)', 'RF SPLITTER', 'SECONDARY FOL TX', 'PRIMARY FOL TX', 'PRIMARY Time split cable', 'SECONDARY Time split cable', 'RF SWITCH', 'PRIMARY FOL RX', 'SECONDARY FOL RX', and 'RF OUTPUT (station receiver)'.</p>	<ul style="list-style-type: none"> <li>• 1:1 redundancy for L-Band</li> <li>• Maximizes link up-time</li> <li>• Can be used to backup copper coax</li> <li>• Manual and automatic control via SNMP</li> <li>• Flexible configuration options</li> <li>• Other redundancy options available</li> </ul>																																																																													
<h3>Rack Chassis</h3>  <p>The image shows two rack chassis units. The top unit is a 3U chassis, which is a long, black metal rack filled with numerous modules. The bottom unit is a 1U chassis, which is a smaller, black metal rack with a few modules. Both units have a perforated front panel for ventilation.</p>	<ul style="list-style-type: none"> <li>• 3U accepts up to 13 RF or Support cards, plus an SNMP card and dual power supplies</li> <li>• A 1U chassis accepts up to 3 RF or Support cards or 2 cards and an SNMP card (with dual power supplies)</li> <li>• Up to 26 channels per 3U chassis (using dual RF cards) – reducing the amount of rack space required</li> <li>• Blind mate option</li> <li>• All modules hot-swappable and auto-reconfigure with SNMP option</li> <li>• On-card LNB and BUC power options</li> <li>• Power fed through rear chassis connector to card Bias Tees</li> <li>• System can be monitored and controlled remotely via SNMP using a web browser</li> </ul>																																																																													
<h3>Outdoor Enclosures</h3>  <p>The image shows three outdoor enclosures of different sizes. Two are closed, and one is open, revealing internal components like cables, connectors, and modules. The enclosures are made of metal and have a weather-resistant design.</p>	<ul style="list-style-type: none"> <li>• CE approved and EMC compatible</li> <li>• IP rated and NEMA approved</li> <li>• Plug and play format</li> <li>• Suitable for harsh environments</li> <li>• All modules hot swappable</li> <li>• Dual redundant power options</li> <li>• Interface for monitor and control (M&amp;C) systems</li> </ul>																																																																													