ARRIS OP33F1S series Single-channel LcWDM™ Optical Filters have been designed with low insertion and polarization dependent losses. These three-port filters are used to add (or drop) a single LcWDM narrowcast wavelength to (or from) a set of LcWDM optical wavelengths.

PRODUCT OVERVIEW

ARRIS OP33F1S series Single-channel LcWDM Optical Filters have been designed with low insertion and polarization dependent losses. These three-port filters are used to add (or drop) a single LcWDM narrowcast wavelength to (or from) a set of LcWDM optical wavelengths.

FEATURES

- Low insertion loss
- Selection of supported LcWDM channels
- Cascade port for daisy-chaining
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- Removable adapters for easy cleaning
- Occupies one half-depth slot
- RoHS compliant

Ask us about the complete Access Technologies Solutions portfolio:

- Node Segmentation
- HPON™/RFoG
- FTTh
- DOCSIS® 3.1
- Fiber-Deep
In addition to packages containing a single filter, dual-filter packages are also available in which the same narrowcast wavelength may be added to (or dropped from) two independent sets of \textit{L}cWDM optical wavelengths.

The filter is packaged in an LGX compatible module and can be mounted in the ARRIS CH3000 chassis, occupying one half-depth slot. It is designed to be used in controlled indoor environments within a temperature range of $-20^\circ$ to $+65^\circ$C.

### SPECIFICATIONS

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<th>Characteristics</th>
<th>Specification</th>
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<td><strong>Physical</strong></td>
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<tr>
<td>Dimensions</td>
<td>6.5&quot; D x 5.2&quot; H x 1.0&quot; W (3RU) (16.5 cm x 13.2 cm x 2.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.8 lbs (0.4 kg)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
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<tr>
<td>Operating temperature range (indoor)</td>
<td>$-20^\circ$ to $+65^\circ$C ($-4^\circ$ to $+149^\circ$F)</td>
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<tr>
<td>Storage temperature range</td>
<td>$-40^\circ$ to $+85^\circ$C ($-40^\circ$ to $+185^\circ$F)</td>
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<tr>
<td>Humidity</td>
<td>5% to 95% non-condensing</td>
</tr>
<tr>
<td><strong>Optical Interface</strong></td>
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<tr>
<td>Optical connectors</td>
<td>SC/APC</td>
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<tr>
<td>Mux input/output ports</td>
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<tr>
<td>Function as MUX</td>
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<tr>
<td>xx add/input channel</td>
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<td>xx drop/output channel</td>
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<td>Function as DEMUX</td>
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<td>input from fiber network</td>
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<tr>
<td>pass-through output</td>
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</table>

**As MUX:** Output to fiber network  
**As DEMUX:** Input from fiber network

**Optical**

- **Wavelength pass-through (input or output)**
  - 1265–1357 nm
- **LcWDM channels**
  - AA, BB, KK, LL, MM, NN, RR, SS, TT or UU
  - (Note: Channels AA and BB cannot be combined with channels KK through UU in an LcWDM environment)

**Insertion losses, including connectors**

- \textit{LcWDM} I/O to COM
  - typical: 0.4 dB
  - max: 0.5 dB
- \textit{CH. xx I/O to COM}
  - typical: 0.6 dB
  - max: 1.0 dB

- Directivity, min: 50 dB
- Return loss, min: 45 dB
- Polarization dependent loss, max: 0.15 dB ($< 0.1$ dB typ)
- Power handling, max (any input port): 21.8 dBm
ORDERING INFORMATION

Single-channel LcWDM Optical Filter

* = Number of Filters in Module (S = Single, D = Dual)

(Reserved field)

** = (cWDM Channel Designator (AA, BB, KK, LL, MM, NN, RR, SS, TT or UU)

(Reserved fields)

AS = SC/APC Connector

RELATED PRODUCTS

CH3000 chassis

Customer Care

Contact Customer Care for product information and sales:
- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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