

# **Optical Passives (OSP)**

OP93F1S

Single-channel *Lc*WDM<sup>™</sup> Optical Filter

## **FEATURES**

- Low insertion loss
- Operating temperature range -40°C to +85°C
- Selection of supported LcWDM channels
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Variety of options for module package size, fiber jacket and connector types
- · Epoxy-free on optical path
- RoHS compliant

Fiber-Deep



### **PRODUCT OVERVIEW**

ARRIS's OP93F1S series Single-channel  $LcWDM^{\infty}$  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.

The filters are provided in ruggedized packaging for outdoor use (within a temperature range of -40 to +85°C) and designed for easy handling.

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SPECIFICATIONS			
Characteristics	Specification		
Physical			
Dimensions	0.36" x 2.01" x 3.50" (9.2 x 51 x 89 mm)		
Veight	0.2 lbs (0.9 kg)		
nvironmental			
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)		
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)		
Humidity	5% to 95% non-condensing		
Optical Interface			
Mux input/output ports		Function as MUX	Function as DEMUX
	• <i>Lc</i> WDM	pass-through input	pass-through output
	Ch Lxx	xx add/input channel	xx drop/output channel
	• COM	output to fiber network	input from fiber network
	COM  LcWDM  As MUX: LcWDM pas As DEMUX: LcWDM p	s-through input	As MUX: xx add / input channel As DEMUX: xx drop / output channel
Wavelength pass-through (input or output)	1265 – 1357 nm		
Optical			
.cWDM channels	AA, BB, KK, LL, MM, NN, RR, SS, TT and UU ( <i>Note</i> : Channels AA and BB cannot be combined with channels KK through UU in an <i>Lc</i> WDM environment.)		
	(		
nsertion losses (without connectors)		typical	max
nsertion losses (without connectors)	• LcWDM I/O to COM:	0.4 dB	0.6 dB
	• LcWDM I/O to COM: • CH. Lxx to COM:		
nsertion losses (without connectors)	• LcWDM I/O to COM:	0.4 dB	0.6 dB
	• LcWDM I/O to COM: • CH. Lxx to COM:	0.4 dB	0.6 dB
Directivity, min	<ul> <li>LcWDM I/O to COM:</li> <li>CH. Lxx to COM:</li> <li>50 dB</li> </ul>	0.4 dB	0.6 dB

#### **PACKAGE OPTIONS**

Two examples are shown below.

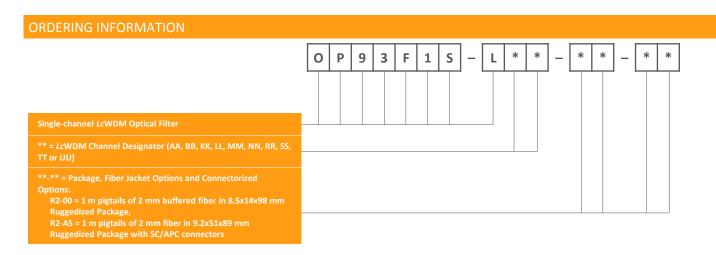


OP93F1S-LMM-R2-AS Single-channel Filter (for *Lc*WDM Channel MM) in Ruggedized Package with SC/APC Connectors (image reduced approximately 50%)



OP93F1S-LKK-R2-00 Single-channel Filter (for *Lc*WDM Channel KK) in Ruggedized Package (shown full scale)





**Note:** Fiber length for all models is  $1 \pm 0.15$  meters; other lengths are available upon request.

RELATED PRODUCTS	
Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	Installation Services

#### **Customer Care**

Contact Customer Care for product information and sales:

United States: 866-36-ARRIS

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**Note:** Specifications are subject to change without notice.

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