Optical Passives (OSP) OP93F1S Single-channel *Lc*WDM[™] Optical Filter



- 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



ARRIS

PRODUCT OVERVIEW

ARRIS's OP93F1S series Single-channel *Lc*WDM[™] Optical Filters have been designed with low insertion and polarization dependent losses. These three-port filters are used to add (or drop) a single *Lc*WDM narrowcast wavelength to (or from) a set of *Lc*WDM 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.

Ask us about the complete Access Technologies Solutions portfolio:

OSP-OP93F1S

Fiber-Deep

DOCSIS[®] 3.1

Node Segmentation

HPON[™]/RFoG

FTTx



SPECIFICATIONS			
Characteristics	Specification		
Physical	Specification		
Dimensions	0.36" x 2.01" x 3.50" (9.2 x 51 x 89 mm)		
Weight	0.36 X 2.01 X 3.30 (9.2 X 51 X 89 mm) 0.2 lbs (0.9 kg)		
Environmental	0.2 IDS (0.9 Kg)		
	40°C to 195°C (40°	F to +10F°F)	
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
	• LcWDM	pass-through input	pass-through output
	Ch LxxCOM	<pre>xx add/input channel output to fiber network</pre>	xx drop/output channel input from fiber network
	As MUX: LcWDM	DM pass-through input M pass-through output	As MUX: xx add / input channel As DEMUX: xx drop / output channel
Wavelength pass-through (input or output)	1265 – 1357 nm		
Optical			
LcWDM 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.)		
Insertion losses (without connectors)		typical	max
	 LcWDM I/O to CO 	M: 0.4 dB	0.6 dB
	• CH. Lxx to COM:	0.6 dB	1.1 dB
Directivity, min	50 dB		
Return loss, min	45 dB		
Polarization dependent loss, max	0.1 dB (< 0.05 dB typ)		
Power handling, max (any input port)	21.8 dBm		

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)

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Note: Fiber length for all models is 1 ± 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 .
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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