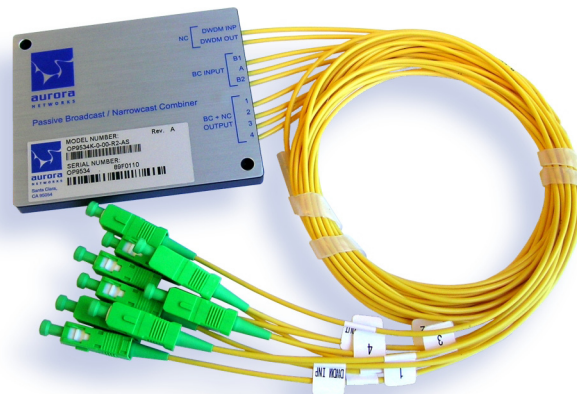


Features

- Low loss integrated narrowcast demultiplexer with broadcast splitter and broadcast/narrowcast combiner
- Totally passive module
- Eliminates most fiber jumpers normally associated with BC-NC combining
- Available with or without SC/APC connectors
- Epoxy-free on optical path

Light-Plex™ Field Passive Optical Narrowcast Demux with BC/NC Combiner



The Model OP9534 is a combined narrowcast demultiplexer and broadcast/narrowcast combiner. The OP9534 features four optical input ports (one carrying the DWDM narrowcast services and the other three for either a single four-way split or dual two-way splits of broadcast services) and five output ports (one narrowcast services pass-through port and four combined broadcast/narrowcast ports). Each OP9534 demultiplexes up to four DWDM wavelengths and is available in various wavelength combinations.

One broadcast optical signal can be equally split four ways or each of two independent broadcast signals can be split two ways, while the narrowcast carriers are separated by a four-channel ITU-grid demultiplexer. Each narrowcast optical carrier is then multiplexed with one of the common broadcast optical signals and passed to one of the four output ports. DWDM optical carriers whose wavelengths are not dropped by the demux are passed through to the DWDM output port.

By adding optical narrowcast carriers, the OP9534 allows MSOs to offer new, revenue-generating services, such as digital video, video-on-demand, high-speed data and telephony, more easily and cost-effectively than ever before.

OP9534

Product Specifications

Physical:

- Dimensions: 3.7" x 3.1" x 0.3" (9.4 cm x 7.9 cm x 0.8 cm)
- Weight: 1.5 lbs (0.68 kg)

Environmental:

- Operating temperature range: -40° to +85°C (-40° to +185°F)
- Storage temperature range: -40° to +85°C (-40° to +185°F)
- Humidity: 5% to 95% non-condensing

Optical Interface

- Optical connectors: See *Ordering Information for available options.*
- Inputs: DWDM INP (narrowcast content), BROADCAST A, B1, B2
- Outputs:
DWDM OUT (pass-through of all DWDM wavelengths not dropped)
#1, #2, #3, #4 (combined broadcast and one dropped DWDM NC)

Optical:

- Optical return loss: 45 dB min
- Polarization Dependent Loss (PDL): 0.25 dB max
- Directivity: 55 dB min

Broadcast:

- Insertion loss (including connectors):
Broadcast Input Port A: 7.3 dB max (<6.8 dB typ)
Broadcast Input Ports B1, B2: 3.8 dB max (<3.5 dB typ)
- Uniformity (including connectors): 0.6 dB max (<0.4 dB typ)
- Passband: At any given output port, the pass band for the BC signal transverses the entire C-band (or EDFA gain band), excluding the NC wavelength to be dropped at that port.
- Wavelength Pass Through: 1423.5–1617.5nm (input and output)

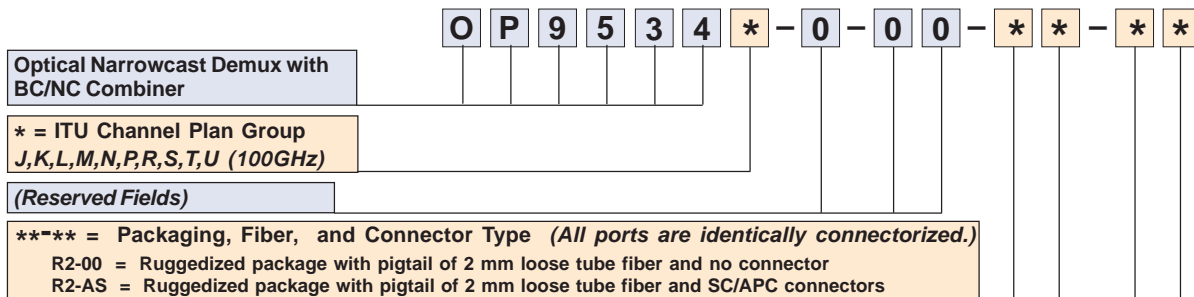
DWDM Narrowcast:

- ITU channels dropped: See *ITU Channel Plans.*
- Passband @ 0.5 dB (centered on DWDM ITU grid): ± 0.125 nm
- Ripple within passband: 0.5 dB
- Insertion loss (including connectors):
DWDM IN to #n OUT: 2.1 dB max (<1.7 dB typ)
DWDM IN to DWDM OUT: 1.2 dB max (<0.9 dB typ)
- Paired insertion loss (including connectors): 2.8 dB max
(Paired insertion loss measured when combined with a single correspondent 4- λ mux module, models OP35M4x-x-xx-AS or BP35M4x-0-xx-AS, Ch. yyINP to Ch. yyOUT)
- Optical channel isolation:
Adjacent: 55 dB min (>65 dB typ)
Non-adjacent: 55 dB min (>65 dB typ)
- Uniformity: 0.6 dB max (difference between max and min output power across the four output ports)

ITU Channel Plans:

Aurora Networks supports DWDM network architectures with a variety of products on the standard DWDM ITU Grid (ITU-T G.694.1). For more complete description of available DWDM ITU Grid channels and Aurora's partitioning into convenient logical channel groups for DWDM mux and demux applications, please refer to the Aurora Networks DWDM ITU Grid Channel Plan data sheet.

Ordering Information



Note: Minimum fiber length for all models is 1 meter.



Corporate Headquarters
5400 Betsy Ross Drive
Santa Clara, CA 95054
Tel 408.235.7000
Fax 408.845.9045