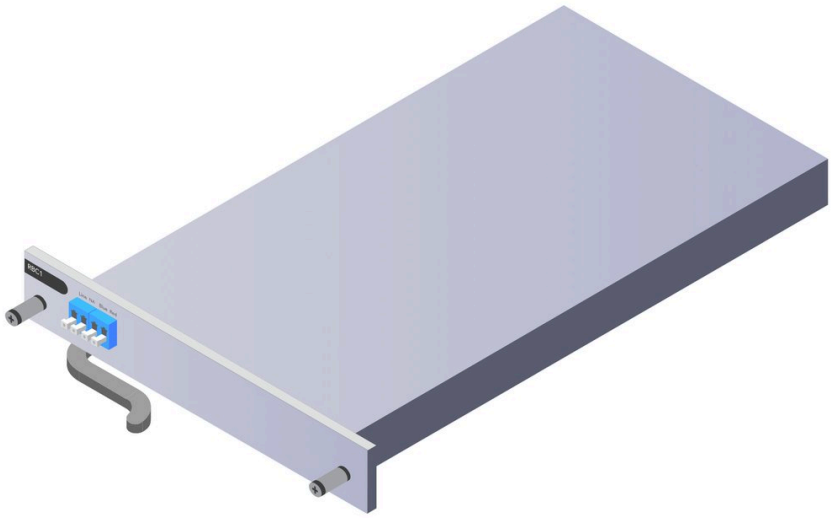
nex·gen

OTN SYSTEMS WDM PLATFORMS

Red/Blue Band Filter Card for WDM Chassis

The Red/Blue Band Filter Card multiplexes and demultiplexes red-band and blue-band C-band optical signals on a single fibre core, using thin-film-filter (TFF) technology. Unlike the standalone Red/Blue Band Filter module, this is a pluggable WDM chassis card, supporting 1 to 5 independent LINE ports on one card, a compact, cost-effective way to add red/blue splitting into an existing chassis-based deployment.



HIGHLIGHTS

1 to 5 LINE ports per card

Stack up to five independent LINE ports (each combining a Red and Blue signal) on one card.

Low insertion loss

≤1.0dB on both the red and blue bands.

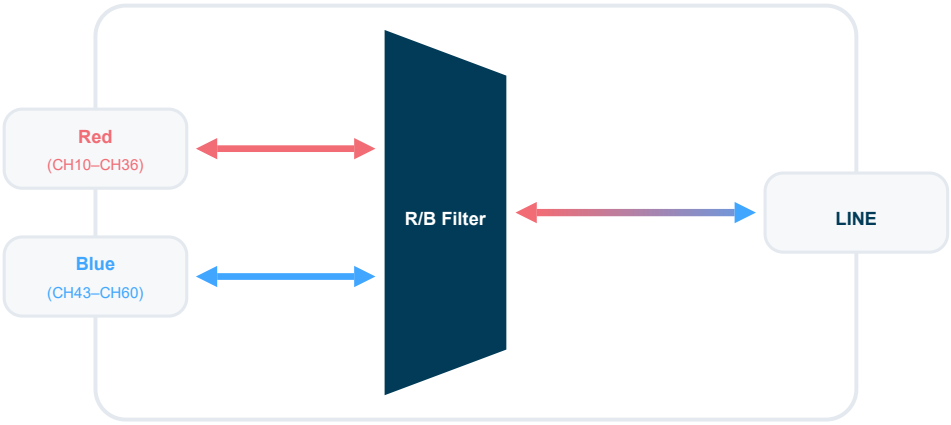
Wide passband

Flexible channel configuration to suit customer requirements.

Pluggable chassis card

Single-card design, one chassis slot per card, hot-swappable.

FUNCTIONAL STRUCTURE



Each LINE port combines Red and Blue onto a single fibre (or splits LINE back into Red/Blue on receive).

FRONT PANEL



FORMAT

CARD FOR WDM CHASSIS 1 SLOT

SPECIFICATIONS

Optical	
Red Band Wavelength Range	1547–1570nm (CH10–CH36)
Blue Band Wavelength Range	1529.1–1543.3nm (CH43–CH60)
Red Band Insertion Loss	≤1.0dB
Blue Band Insertion Loss	≤1.0dB
Isolation	≥25dB
Return Loss	≥45dB
Directionality	≥50dB
Polarisation Dependent Loss	≤0.1dB
Polarisation Mode Dispersion	≤0.1ps
Optical Interface	LC/UPC
Management & Mechanical	
Occupied Slot Number	1 slot, compatible with all OTN WDM chassis
Maximum Power Consumption	3W

ORDERING INFORMATION

NAME	Red/Blue Band Filter Card for WDM Chassis
DESCRIPTION	Red/Blue Band Filter Card, thin-film-filter (TFF) red/blue C-band multiplexer/demultiplexer, pluggable WDM chassis card. Red band 1547-1570nm (C10-C36), Blue band 1529.1-1543.3nm (C43-C60). Low insertion loss, LC/UPC interface.
PART NUMBER	**WDM-RBC-{Lines}-1S**

{Lines} 1 · 2 · 3 · 4 · 5, the card can be ordered with 1 to 5 independent LINE ports, required