

BTF N/B/R/M

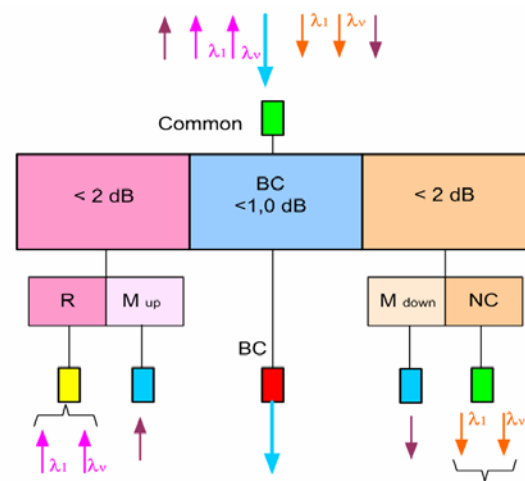
OPTICAL MULTIPATH FILTER

Application

- ▶ Universal optical filter utilized for decoupling of wavelength bands for Broadcast - (BC), Narrowcast - (NC) Return path - (R) and additional two CWDM Management signals
- ▶ Distribution of optical signals in DWDM CATV networks
- ▶ In-band management of CATV networks

Features

- ▶ Transmission of BC signals with minimum loss in DWDM networks
- ▶ Management signals in CWDM channels can be transmitted
- ▶ Management-interface with RX- and TX-ports to be connected to a „media-converter“
- ▶ Transmission of IP-signals of the remote network element controllers (e.g. BKtel NEC-E) to central locations using BKtel media converter MC100DX-product family
- ▶ Low insertion loss for all 4 bands
- ▶ Extension of networks with bands for NC, R and M are not effecting the BC path
- ▶ Two versions available for different signal directions: Headend (HE) and Hub (HUB)
- ▶ 19"/1HE – chassis with E2000- adaptors



Technical Specifications

Parameter	Unit		Notes
Wavelegnth range for system	nm	1520 – 1600	according ITU-Grid
Maximum wavelength range for BC	nm	1555 - 1561	min. two channels (λ_{min} , λ_{max})
Stop band for NC and R	nm	$\lambda_{min} - 1.3$ to 1561	
Max. insertion loss BC	dB	1.0	Without connector loss (0.2 dB)
Maximum wavelength range NC & R	nm	1520 - 1555	≤ 18 ITU channels each for NC and R
minmum wavelength range NC & R	nm	1540 - 1555	≤ 8 ITU channels each for NC and R
wavelength range M up und M down	nm	1570 \pm 6 ; 1590 \pm 6	CWDM - channels
<i>The choice of wavelengths is carried out according customer demand</i>			
Max. insertion loss NC, R and M	dB	2.0	Without connector loss (0.2 dB))
Optical adaptors (NC,BC, R)		E2000/0.1dB	Other HRL-types on request
Optical adaptors (Management)		SC / PC	
Return loss	dB	> 45	
Maximum optical input power	mW dBm	200 23	
Isolation BC and NC	dB	> 25	
Isolation BC and R	dB	> 25	
Isolation R and NC	dB	> 30	
Isolation M and R, NC	dB	> 25	
Operating temperature	°C	0 to + 65	
Size	mm	483x240x45	19 " / 1 HE
Weight	kg	1.5	

Ordering Information

BTF N/B/R/M HE	E2000/SC-PC	BTF N/B/R/M HE
BTF N/B/R/M Hub	E2000/SC-PC	BTF N/B/R/M Hub