

# BODnn20-Kxx-yy

## OPTICAL MULTIPLEXER DWDM

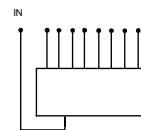
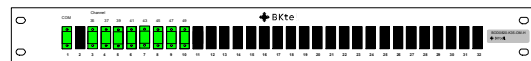
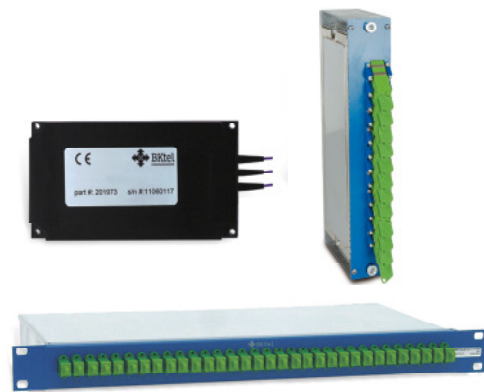
### Application

- ▶ Multiplexing or demultiplexing of optical signals in
  - CATV networks,
  - MANs or
  - LANs

### Features

- ▶ Thin-film technology
- ▶ 200 GHz (1.6 nm) ITU grid channel spacing
- ▶ High isolation
- ▶ Low insertion loss
- ▶ Epoxy-free optical path
- ▶ Available as
  - MUX (BODnn20-Kxx-OM) and
  - DEMUX (BODnn20-Kxx-OD)
 optimized for lowest insertion loss when used as a pair in a transmission system

- ▶ Available in
  - compact housing with pigtailed BODnn20-Kxx-yy
  - 19" - 1 HU housing with adaptors BODnn20-Kxx-yy-H
  - 19" - 3 HU plug-in unit with adaptors BODnn20-Kxx-yyV
- ▶ FC/APC, SC/APC or E2000 connectors



Types: MUX: BOD...	1620-Kxx-OM	0820-Kxx-OM	0420-Kxx-OM	0320-Kxx-OM	0220-Kxx-OM
DEMUX BOD...	1620-Kxx-OD	0820-Kxx-OD	0420-Kxx-OD	0320-Kxx-OD	0220-Kxx-OD

Performance Data	Unit	1620-Kxx-OM	0820-Kxx-OM	0420-Kxx-OM	0320-Kxx-OM	0220-Kxx-OM
ITU-T-grid channel number		16	8	4	3	2
Channel spacing	[GHz]	200	200	200	200	200
Start wavelength		Kxx	Kxx	Kxx	Kxx	Kxx
Passband	[nm]	$\lambda_{ITU} \pm 0.25$	$\lambda_{ITU} \pm 0.25$	$\lambda_{ITU} \pm 0.25$	$\lambda_{ITU} \pm 0.25$	$\lambda_{ITU} \pm 0.25$
Passband flatness	[dB]	0.5	0.5	0.5	0.5	0.5
Max Insertion loss*)	[dB]	4.5	3.0	2.0	1.8	1.5
Typ. Insertion loss*)	[dB]	3.8	2.4	1.6	1.4	1.2
Max. Insertion loss MUX-DEMUX pair*)	[dB]	7.0	3.9	3.0	2.8	2.5
Min. optical isolation adjacent channels	[dB]	30	30	30	30	30
Min. optical isolation non adjacent channel	[dB]	45	45	45	45	45
Return loss	[dB]	45	45	45	45	45
Operating temperature	[°C]	0 ... 65	0 ... 65	0 ... 65	0 ... 65	0 ... 65

\*) excluding connector loss

