

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 pigtails	BODnn20-Kxx-yy
19" - 1 HU housing with adaptors	BODnn20-Kxx-yy-H
1 unit BK module housing	BODnn20-Kxx-yy-BK
other on request	
- ▶ Connectors: SC/APC, LC/APC or E2000



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				
Start wavelength		Kxx				
Passband	[nm]	$\lambda_{ITU} \pm 0.25$				
Passband flatness	[dB]	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				
Min. optical isolation non adjacent channel	[dB]	≥ 45				
Return loss	[dB]	≥ 45				
Directivity	[dB]	≥ 50				
Operating temperature	[°C]	0 ... 65				

*) excluding connector loss