



Key Features

- Ultra-compact
- Based on TFF technology
- Ultra-low Insertion loss
- Stable at wide range of operating temperatures

Applications

- WDM, CATV, Spot Video and Data Center Networks.
- Upgrade from CWDM/DWDM 10Gbps to 40Gbps or 25Gbps to 100Gbps. No separate WDM cassette is needed.
- High speed multi-wavelength CWDM transceivers, line-card, portable testing equipment.



Ultra Compact WDM

Ultra Compact Cable-Type WDM (Mux+DeMux)



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Parameter Specifications: CWDM Mux & DeMux in a single package

Parameters	2x4 Channels (2 common ports)	1x8 Channels (1 common port)	Units
Insertion Loss	≤1.2	≤1.7	dB
Ripple		≤0.5	dB
Polarization Dependent Loss		≤0.3	dB
Dimension		50 x 12 x 6.5	mm
Choice of Center Wavelengths		1271 - 1611	nm
Channel Spacing		20	nm
Channel Passband		$\lambda_c \pm 6.5$ (Min.)	nm
Isolation-Adjacent		≥30	dB
Isolation-Non-adjacent		≥40	dB
Return Loss		≥45	dB
Directivity		≥50	dB

Notes:

1. The above specs exclude connector loss, each pair of connectors add 0.2dB.

Parameter Specifications: DWDM Mux & DeMux in a single package

Parameters	2x4 Channels (2 common ports)	1x8 Channels (1 common port)	Units
Insertion Loss	≤1.5	≤2.0	dB
Ripple		≤0.5	dB
Polarization Dependent Loss		≤0.3	dB
Dimension		65 x 16 x 6.5	mm
Choice of Center Wavelengths		ITU channels	nm
Channel Spacing		100G:0.8 200G:1.6	nm
Channel Passband		100G: $\lambda_c \pm 0.11$ (Min.) 200G: $\lambda_c \pm 0.25$ (Min.)	nm
Isolation-Adjacent		≥30	dB
Isolation-Non-adjacent		≥40	dB
Return Loss		≥45	dB
Directivity		≥50	dB

Notes:

1. The above specs exclude connector loss, each pair of connectors add 0.2dB.

Operating Conditions

Parameters	4 Channels	Units
Maximum Power handling	500	mW
Operating Temperature*	-5 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
Operation Humidity	5 to 95 % Relative Humidity	

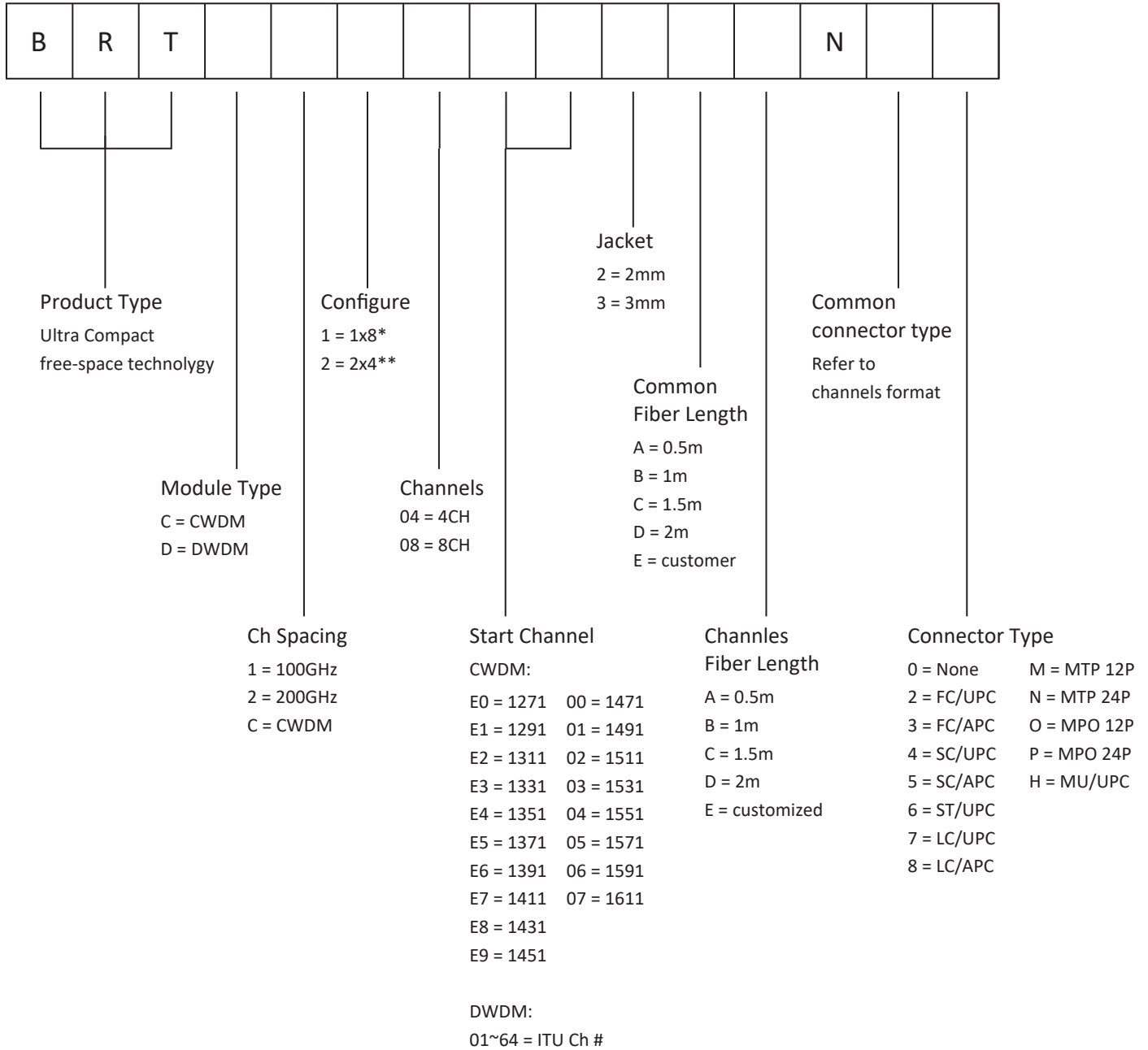
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Part Number Scheme: Ultra Compact Cable-Type WDM Mux+DeMux Modules



Notes: *8 different wavelengths, 4 channels for Mux, the other 4 channels for DeMux
 **4 pair wavelengths in two groups. One group function as Mux, the other group functions as DeMux.

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