

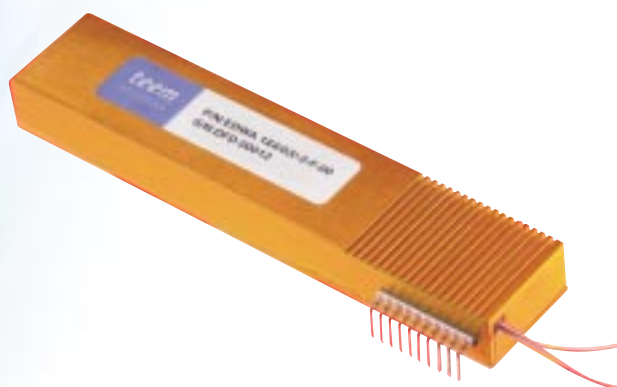
# 1x4 and 1x8 Amplified Splitters/Combiners

We combine the high performance of our splitter chips and the compactness of our Metro EDWA™. It includes: a pump laser (with TEC cooler), a pump signal multiplexer, a 980 nm kill filter on output, a tap coupler with photodiode for output monitoring, positioned in front of the 1xN splitter.

Our amplified splitters/combiners can multiplex 4 to 8 input wavelengths into a single output fiber.

The components are pigtailed with a ribbon of single-mode fibers and packaged in compact rugged housing. They can be connectorized and installed in rackable boxes on request

All of our products are made using Teem's proprietary planar platform technology.



## Key Strengths

- Can be used as a splitter or multiplexer
- Integrates functions: pump laser, pump mux, amplifier, splitter
- Compatible with polarization maintaining applications
- Highly compact

## 1x8 Amplified Splitter Performance

1x8 Amplified Splitter with integrated pump mux, pumped with 140 mW at 980 nm

Small signal gain(at 1535 nm, input signal -15 dBm)	10 dB
0 dB loss bandwidth (input signal -15 dBm)	1530-1560 nm
Gain uniformity between output ports 1530-1560	< 0.5 dB
Maximum output power <sup>(1)</sup> per port on C-band	-4 dBm (for 140 mW pump)
Noise figure (input signal -15 dBm)	< 7 dB <sup>(2)</sup> < 6 dB <sup>(3)</sup>
PDL and PDG	< 0.5 dB
Pump laser (internal)	140 mn @ 980 nm, TEC cooled
Output tap coupler with monitoring photodiode	Photodiode positioned in front of splitter (option)
Back-reflection	-60 dB
Signal input and output fibers	SMF 28

(1) At 0 dBm input power

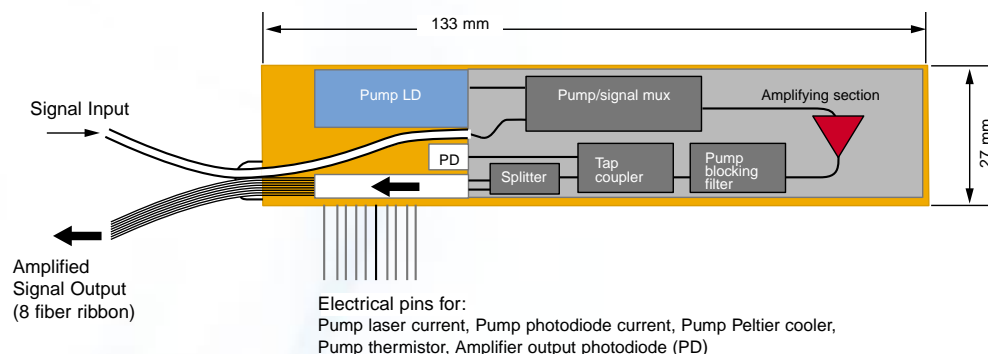
(2) Including the 1x8 splitter

(3) Amplifying section only

## Nominal Package Size

13 cm x 2.7 cm x 1.3 cm

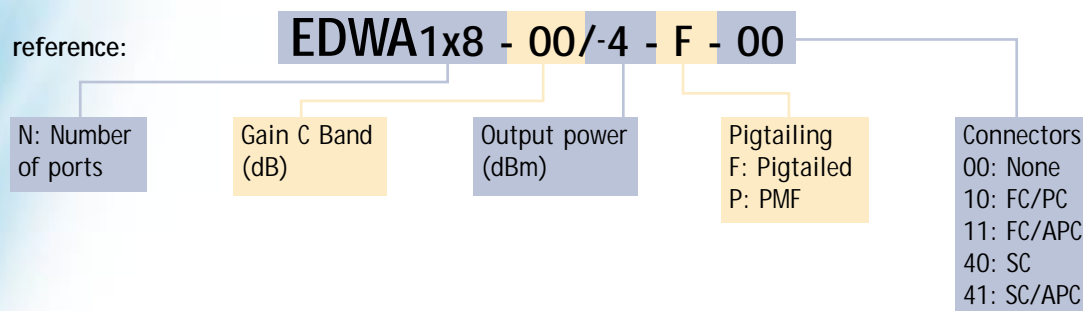
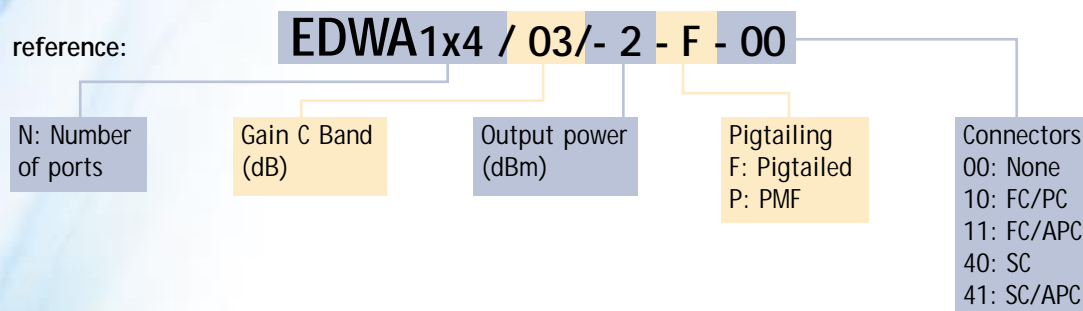
## Amplified splitter/combiner gain block diagram



## Custom Designed Amplified Splitters/Combiners

Available upon request.

## Order Code



To order, contact our Sales Department:

- tel: +33 (0)476 04 05 10
- fax: +33 (0)476 04 03 02
- e-mail: [sales@teemphotonics.com](mailto:sales@teemphotonics.com)

