BWC-EDFA-E

BWC-EDFA-E Erbium Doped Fiber Amplifier/ Broadband Source

The BWC-EDFA-E is a complete portable bench top amplifier/broadband source, which operates over a wide temperature range and exhibits extremely low power dissipation. BWC-EDFA-E comes with microcontroller based alarm and control option. Optimum performance and system stability are supported through the use of optical isolation at the input and output.

Highlights

- *Gain-flattened spectral response option*
- *Dynamic gain equalization*
- *Broad bandwidth*
- *Low noise*
- *Isolated input and output*
- *Optical input and output taps option*
- *Wide operating temperature range*
- *Standard serial communication interface option*
- *Low power consumption*

Applications

- *Preamplifier*
- *Line amplifier*
- *Booster/power amplifier*
- *DWDM system*

B&W TEK INC.
Tel: (302) 368-7824 · Fax: (302)368-7830 · E-mail: info@bwtek.com
825 Dawson Drive, Suite 1, Newark, DE 19713, USA · Web: www.bwtek.com

BWC-EDFA-E

Specifications

BWC-EDFA-17-25	Symbol	MIN	TYP	MAX	UNIT
Wavelength	λ	1548		1561	nm
Input Power	Pin	-17		-8	dBm
Gain*	G		25		dB
Output Power*	Pout	8		17	dBm
Noise figure*	NF		5		dB
Gain Flatness*	ΔG			±0.5	dB
Output Power Stability**	ΔPo			±0.2	dB
Return Loss	RL			-40	dB
Polarization Mode Dispersion	PMD			±0.5	Ps
Polarization Sensitivity	PS			±0.2	dB
Power Supply Voltage	Vcc		100 - 240 V AC		
Power Consumption			10		W
Operating Case Temperature	Tcase	0	25	65	°C
Storage Temperature	Tsr	-40		70	°C

Optical connector	Optional
Electrical Interface	DB-9 MALE (with RS232 communication interface option)
Dimension	155mm (w) x89mm (h) x255mm (d)
Weight	5 lbs

* Tc=25°C, λ=1553nm
** over temperature range, at a constant Input Power.

B&W TEK INC.
Tel: (302) 368-7824 · Fax: (302)368-7830 · E-mail: info@bwtek.com
825 Dawson Drive, Suite 1, Newark, DE 19713, USA · Web: www.bwtek.com

Specifications

EDFA-17-33	Symbol	MIN	TYP	MAX	UNIT
Wavelength	λ	1548		1561	nm
Input Power	Pin	-25		-16	dBm
Gain*	G		33		dB
Output Power*	Pout	8		17	dBm
Noise figure*	NF		5		dB
Gain Flatness*	ΔG			±0.5	dB
Output Power Stability**	ΔPo			±0.2	dB
Return Loss	RL			-40	dB
Polarization Mode Dispersion	PMD			±0.5	Ps
Polarization Sensitivity	PS			±0.2	dB
Power Supply Voltage	Vcc		100 - 240 V AC		
Power Consumption			10		W
Operating Case Temperature	Tcase	0	25	65	°C
Storage Temperature	Tsr	-40		70	°C
Optical connector		Optional			
Electrical Interface	DB-9 MALE (with RS232 communication interface option)				
Dimension		155mm (w) x89mm (h) x255mm (d)			
Weight		5 lbs			

* Tc=25°C, λ=1553nm
** over temperature range, at a constant Input Power.

B&W TEK INC.
Tel: (302) 368-7824 · Fax: (302)368-7830 · E-mail: info@bwtek.com
825 Dawson Drive, Suite 1, Newark, DE 19713, USA · Web: www.bwtek.com

BWC-EDFA-E

Specifications

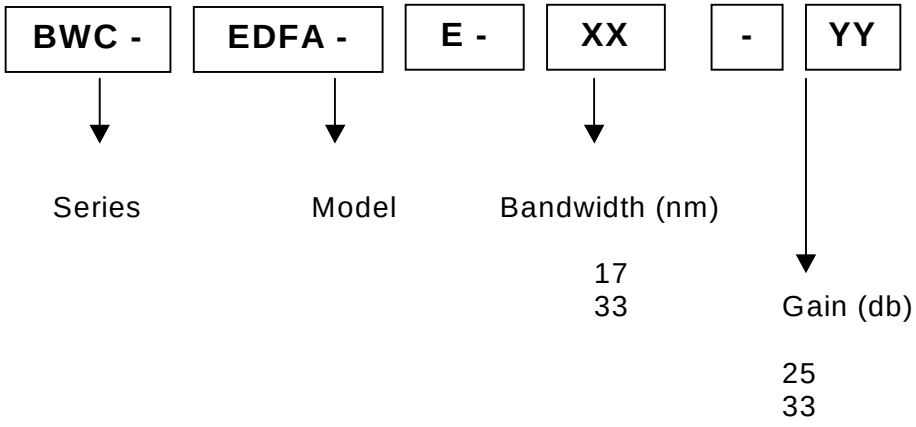
EDFA-33-25	Symbol	MIN	TYP	MAX	UNIT
Wavelength	λ	1530		1565	nm
Input Power	Pin	-23		-8	dBm
Gain*	G		25		dB
Output Power*	Pout	2		17	dBm
Noise figure*	NF		5		dB
Gain Flatness*	ΔG			±0.8	dB
Output Power Stability**	ΔPo			±0.2	dB
Return Loss	RL			-40	dB
Polarization Mode Dispersion	PMD			±0.5	Ps
Polarization Sensitivity	PS			±0.2	dB
Power Supply Voltage	Vcc		100 - 240 V AC		
Power Consumption			10		W
Operating Case Temperature	Tcase	0	25	65	°C
Storage Temperature	Tsr	-40		70	°C
Optical connector		Optional			
Electrical Interface	DB-9 MALE (with RS232 communication interface option)				
Dimension		155mm (w) x89mm (h) x255mm (d)			
Weight		5 lbs			

* Tc=25°C, λ=1553nm
** over temperature range, at a constant Input Power.

B&W TEK INC.
Tel: (302) 368-7824 · Fax: (302)368-7830 · E-mail: info@bwtek.com
825 Dawson Drive, Suite 1, Newark, DE 19713, USA · Web: www.bwtek.com

Ordering Information

Please contact B&W Tek for OEM packaging option.



Tel: (302) 368-7824 · Fax: (302)368-7830 · E-mail: info@bwtek.com
825 Dawson Drive, Suite 1, Newark, DE 19713, USA · Web: www.bwtek.com