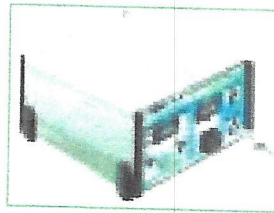


## L-Band EDFA Specifications

Parameters	Typical Value	
Wavelength range	nm	1570-1605
Nominal saturated output power range	dBm	from 14 to 23
Nominal gain range	dB	from 13 to 28
Nominal gain flatness	dB	<1.0
Nominal noise figure	dB	<6.5
PMD	ps	<0.5
PDL	dB	<0.3
Input / output tap responsivity	$\mu\text{A}/\text{mW}$	from 10 to 80
Input / output return loss	dB	>40.0
Operating temperature range	$^{\circ}\text{C}$	-5 to 70
Package dimensions	$\text{mm}^3$	depends on options available on demand

# Broadband ASE Sources



HWT optical broadband Erbium-doped fibre sources are designed to offer a continuous stable emission in the 1530 to 1610nm wavelength bandwidth. All ASE sources are optimised to minimise the spectrum flatness value.

### C-Band ASE Sources (single or double output)

Parameters	min	typ	max
Wavelength bandwidth	nm	1525	1575
Total output power <sup>1</sup>	dBm	14 (25mW)	
Flatness within the 1528-1565nm wavelength bandwidth	dB	7	8
Spectrum stability	dB/h		$\pm 0.03$
Output isolation	dB	40	
Optical connectors		FC/APC	
Power supply		110-240V, 50-60Hz	
Alarms		laser current limit	
Dimensions (HxWxD)		132.5 x 233.6 x 280mm	

<sup>1</sup>optional second output channel, minimum output power per channel of 10dBm

### L-Band ASE Sources (single or double output)

Parameters	min	typ	max
Wavelength bandwidth	nm	1560	1620
Total output power <sup>2</sup>	dBm	10 (10mW)	
Flatness within the 1570-1595nm wavelength bandwidth	dB	0.5	1
Spectrum stability	dB/h		$\pm 0.03$
Output isolation	dB	40	
Optical connectors		FC/APC	
Power supply		110-240V, 50-60Hz	
Alarms		laser current limit	
Dimensions (HxWxD)		132.5 x 233.6 x 280mm	

<sup>2</sup>optional second output channel, minimum output power per channel of 5dBm

