

BK 600 Optical System

optical transmitters



Optical Transmitter for 1310 nm

Application

- Transmission of CATV signals on
- standard single mode fibres
- (CCITT rec. G652)

Features

- DFB laser with optical isolator
- thermoelectric cooler
- enhanced performance
- high reliability design
- separate pre-amplifier with automatic load control
- A/B alarm interface
- BK modular technique

Model Number		SSO 606	SSO 611
Typical performance data			
Optical Output Power, typ/max	[dBm]	6/7	11/12
Optical Wavelength	[nm]	1310 ±10	1310 ±10
Optical Connector		any HRL type	any HRL type
Optical Return Loss	[dB]	50	50
Optical Modulation Index	[%]	5	5
RF bandwidth	[MHz]	47..862	47..862
Flatness	[dB]	±0,5	±0,5
RIN (incl. booster)	[dBc/Hz]	-157	-157
CSO (CENELEC 42)	[dBc]	65	65
CTB (CENELEC 42)	[dBc]	65	65
RF Input impedance	[ohm]	75	75
RF Return loss	[dB]	20 at 47 MHz	20 at 47 MHz
RF Input level/channel	[dBµV]	87	87
Supply Voltage	[VDC]	24	24
Power Consumption	[W]	<16	<18
Operating Temperature Range	[°C]	-10 ... +55	-10 ... +55
Operational lifetime	[Year]	19,5	19,5
MTBF	[FIT]	5900	5900
Size	[BK]	1	1

ORDERING INFORMATION

Optical Transmitter

Version Funea Broadband Services bv

SSO 606

SSO 611

Connectors

E 2000

E 2000

Ordering Number

BK-S8/ 6 C42

BK-S8/11 C42

BK 600 Optical System

optical transmitters



Optical Transmitter for 1550 nm

Application

- Narrowband transmission in
- DWDM or CWDM applications on
- standard single mode fibres
- (CCITT rec. G652)

Features

- DFB laser with optical isolator
- thermoelectric cooler
- enhanced performance
- high reliability design
- separate pre-amplifier with automatic load control
- A/B alarm interface
- BK modular technique

Model Number		SSO 503	SSO 510
Typical performance data			
Optical Output Power	[dBm]	3	11
Optical Wavelength	[nm]	1530..1560	1530..1560
Optical Connector		any HRL type	any HRL type
Optical Return Loss	[dB]	50	50
Optical Modulation Index	[%]	2..10	2..10
RF bandwidth	[MHz]	7..862	7..862
Flatness	[dB]	±0,5	±0,5
RIN	[dBc/Hz]	158	158
RF Input impedance	[ohm]	75	75
RF Return loss	[dB]	20 at 47 MHz	20 at 47 MHz
RF Input level/ch. (5% OMI)	[dBµV]	87	87
Supply Voltage	[VDC]	24	24
Power Consumption	[A]	0,63	0,75
Operating Temperature Range	[°C]	-10 ... +55	-10 ... +55
Operational lifetime	[Year]	19,5	19,5
MTBF	[FIT]	5900	5900
Size	[BK]	1	1

ORDERING INFORMATION

Optical Transmitter

Version Funea Broadband Services bv

SSO 503

SSO 510

Connectors

E 2000

E 2000

Ordering Number

BK-S4/ 3 C42

BK-S4/11 C42