

BK 600 Optical System

optical return-path transmitters



Optical Return-path Transmitter for 1310 nm

Application

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

Features

- FP or DFB uncooled laser with optical isolator
- enhanced performance
- high reliability design
- internal pilot generator 3,58 MHz
- A/B alarm interface
- BK modular technique

Model Number		SSO 120	SSO 130
Typical performance data			
Optical Output Power, typ.	[dBm]	-3	0
Optical Wavelength	[nm]	1310 ±10	1310 ±10
Laser-type		FP	DFB-U
Optical Connector		any HRL type	any HRL type
Optical Return Loss	[dB]	>20	>30
RF bandwidth	[MHz]	5..120	5..120
Flatness	[dB]	±0,5	±0,5
RIN	[dBc/Hz]	-120	-140
IMA2 (1 carrier, 78% OMI)	[dBc]	45	45
IMA3 (1 carrier, 78% OMI)	[dBc]	45	45
RF Input impedance	[ohm]	75	75
RF Return loss	[dB]	20 at 47 MHz	20 at 47 MHz
RF Input level/ch. (OMI=18%)	[dBµV]	76	76
Pilot level 3,58 MHz	%	2,5	2,5
Supply Voltage	[VDC]	24	24
Power Consumption	[A]	0,3	0,3
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	Connectors	Ordering Number
Version Funea Broadband Services by		
SSO 120	E 2000	SSO 120
SSO 130	E 2000	SSO 130

BK 600 Optical System

optical return-path transmitters



Optical Return-path Transmitter for 1550 nm

Application

- Upstream transmission of QAM signals for
- Standard or CWDM applications on
- standard single mode fibres
- (CCITT rec. G652)

Features

- DFB laser uncooled or FP with optical isolator
- enhanced performance
- high reliability design
- internal pilot generator 3,58 MHz
- A/B alarm interface
- BK modular technique

Model Number		SSO 121C	SSO 121
Typical performance data			
Optical Output Power	[dBm]	0	0
Laser Type		DFB-U	FP
Optical Wavelength	[nm]	1470..1610	1550 (±10)
Optical Connector		any HRL type	any HRL type
Optical Return Loss	[dB]	>30	>20
Optical Modulation Index	[%]	2..20	2..20
RF bandwidth	[MHz]	5..120	5..120
Flatness	[dB]	±0,5	±0,5
RIN	[dBc/Hz]	145	120
RF Input impedance	[ohm]	75	75
RF Return loss	[dB]	20 at 47 MHz	20 at 47 MHz
RF Input level/ch. (18% OMI)	[dBμV]	76	76
IMA2 (1 carrier, 78% OMI)	[dBc]	45	45
IMA3 (1 carrier, 78% OMI)	[dBc]	45	45
Pilot level 3,58 MHz	%	2,5	2,5
Supply Voltage	[VDC]	24	24
Power Consumption	[A]	0,3	0,3
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	Connectors	Ordering Number
Version Funea Broadband Services by		
SSO 121C	E2000	SSO121Cxxxx xxxx = 1470..1610
SSO 121	E2000	Phased out