BK 600 Optical System

optical receivers

Optical Receiver

Application

- Receiver for optical CATV transmission
- system using standard single mode fibres
- (CCITT rec. G652)

Features

- PIN photodiode as optical/electrical converter
- very low noise
- enhanced performance
- high reliability design
- AGC using pilot or optical input-level
- A/B alarm interface, LED status information
- BK modular technique

Model Number		SEO 686	SEO 690	SEO 691
Typical performance data				
Optical Input Power, min/max	[dBm]	-8..+2	-8..+2	-22..-12
Optical Wavelength	[nm]	1290..1600	1280..1580	1280..1580
Optical Connector		any HRL type	any HRL type	any HRL type
Optical Return Loss	[dB]	50	45	45
Receiver Noise	[pA/√Hz]	<8	<5	<2
Detector responsiveness	[A/W]	0,9..1	0,9..1	0,9..1
RF bandwidth	[MHz]	47..862	7..862	5..200
Flatness	[dB]	±0,8	±0,8	±0,6
CSO (CENELEC 42)	[dBc]	75	60	60
CTB (CENELEC 42)	[dBc]	75	63	63
RF Output impedance	[ohm]	75	75	75
RF Return loss	[dB]	20 at 47 MHz	20 at 47 MHz	20 at 47 MHz
RF Output level/channel @5%	[dBµV]	1 x 87	1 x 81	1 x 53
RF Testpoint	[dB]	-20 ±1	-30 ±1*	-30 ±1*
ALC range	[dB]	16	20	20
ALC deviation	[dB]	<±0,5	<±0,5	<±0,5
Pilot frequency	[MHz]	79 … 81	optical	optical
Pilot level (comp. to TV carrier)	[dB]	0 …-6		
Testpoint Optical Input-power	[V/mW]	1	via RS-485	via RS-485
Supply Voltage	[VDC]	24	24	24
Power Consumption	[A]	0,75	0,16	0,16
Operating Temperature-range	[°C]	-15 ... +55	-20 ... +60	-20 ... +60
MTBF	[Year]	73	73	73
Size	[BK]	1	1	1

*non-directional

ORDERING INFORMATION

Optical Receiver	**Connectors**	**Ordering Number**
Version Funea Broadband Services bv		
SEO 686	E 2000	BK-E8
SEO 690	E 2000	BK-BOR 860