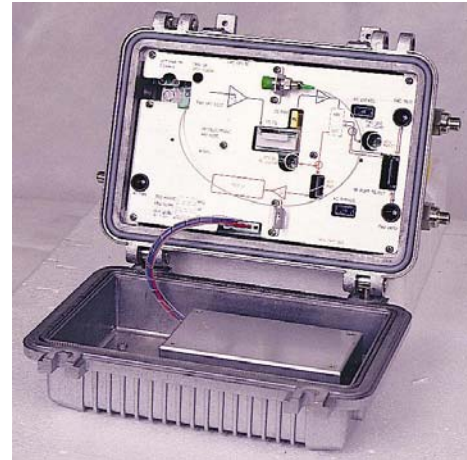

OPS900 two-way optical station

Description

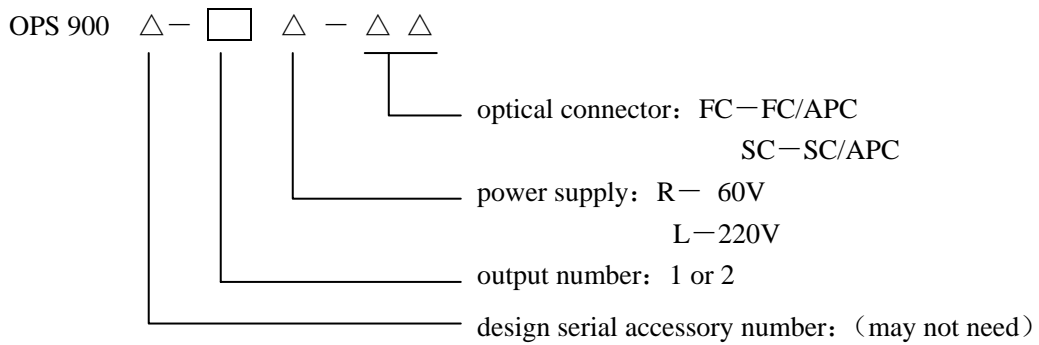
The forward receiver adopt the high performance active photoelectric transform module with ORTEL technology, the RF amplifier adopt the GaAs power multiplier gain module; and the reverse transmitter adopt the high quality FP laser, the output power is 0~3dbm. This product becomes much suitable for the HFC network after adopting the latest applied technique of the photoelectric products and times of improvement. The feed as well as the output form are able to satisfy the requirement of different users.



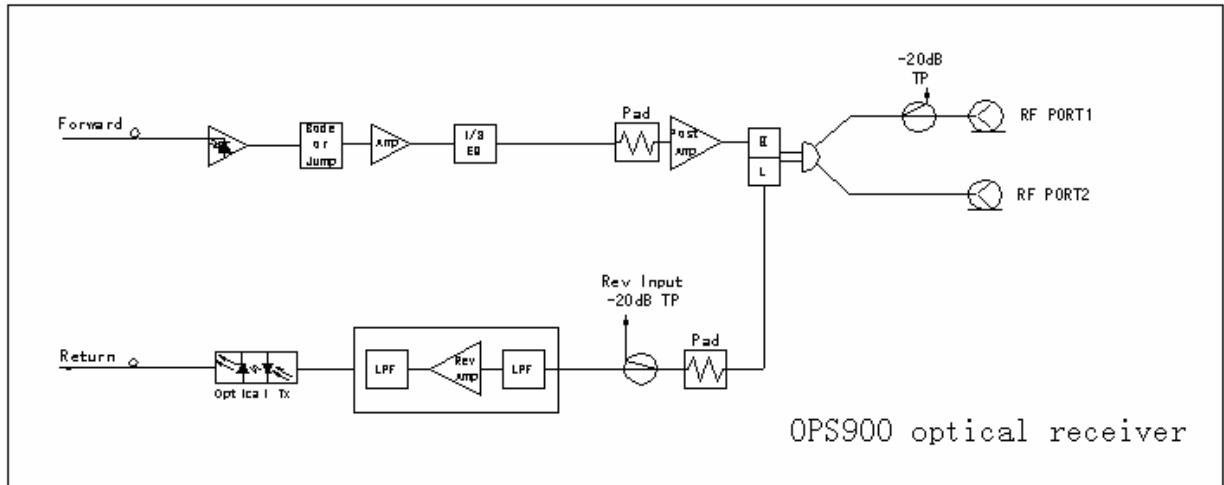
Feature

- The forward receiver adopt the high performance active photoelectric transform module with ORTEL technology, and the reverse transmitter adopt the high quality FP laser
- The GaAs power multiplier gain module improves the performance of RF amplifier.
- When OPS900 has signal channel output, each output level will reach 110 dB μ V , when OPS1000 has dual channel output, each output level will reach 106 dB μ V (pin=1dB, 9dB tilt output at 85~862MHz).
- The reverse optical module, the reverse optical amplifier module and the duplex filter module are able to be updated on-line.
- Input optical power test point at 0.2mw/v; LED alarm for optical signal loss, easy to test optical circuit operation.

Product identification system



Functional block diagram



Specifications

Item	Note	OPS900	Unit
Forward path			
Optical characteristics			
Optical fiber		9/125/900	μ m
Optical receiver wavelength		1100-1600	nm
Optical return loss		>40	dB
Optical power range		+3 ~ -7	dBm
Optical connector		SC/APC or FC/APC	
Input optical power test point		0.2	mW/V
RF output			
Frequency range		47~750/862	MHz
Flatness		±0.75(47~862MHz)	dB
Return loss		16	dB
Output port number	1	≤2 channels	
Output impedance		75	Ω
Output level	2,5	106~110	dB μ V
Test port		-20	dB
Link performance			
C/N	2,3,4	51	dB
CSO	2,3,4	-62	dBc
CTB	2,3,4	-66	dBc
Reverse path			
Optical characteristics			
Type of laser		Fabry-Perot	
Optical wavelength		1310±20	nm
Output optical power		0 to 3	dBm
Fiber connector		SC/APC or FC/APC	
Output optical power test point		1	mW/V
RF input			
Frequency range		5~200	MHz
Slope		0 to -1	dB
Flatness		±0.5	dB
Return loss (75ohms)		16	dB
RF input test point		- 20	dB
RF driver level (from 5 to 65MHz)		-34	dBmV/Hz
Link performance			
C/N (link loss 6dB)		45	dB
Combination distortion component		-60	dBc
Power supply			
AC operating voltage		40~90	V
Operation environmental temperature		- 25 ~ + 55	℃

- Note
- 1: output channels (from 2 to 4) optional.
 - 2: optical receiver input power -1dBm.
 - 3: PAL-D/K 59 channels Chinese standard.
 - 4: refer to OT7C&OT8C or TXA optical transmitter performance table.
 - 5: 4 channels output, 9dB slope condition, OPS1000E each output 42dBmV, OPS1000 each output 46dBmV.