

GRS-6805 (47~862MHz & 950~5950MHz)

CATV & 4 SAT-IF Optical Receiver

PRODUCT DESCRIPTION

GRS-6805, a kind of high performance 4-band SAT –IF O/E converter which is compatible with CATV (include DAB, DTT, FM). It adopts the technology of frequency division multiplexing, can receive the 950~5450MHz (4 SAT-IF overlay) and 47~862MHz (CATV) optical signal that transmitted by one fiber.

GRS-6805/WD, GRS-6805/WF, can be compatible with any FTTx PON, to realize internet, Full-Band SAT-TV & CATV Triple-play network and FTTH.

GRS-6805 the forepart of the satellite antenna adopt satellite full-channel overlay LNB, such as LNB-2204 and HDS-55A optical transmitter.



PRODUCT FEATURES

- ▶ Adopt one fiber to transmit Full-channels direct-broadcast satellite TV and CATV signal with high quality
- ▶ GRS-6805 (Can connect 5*N multi-way satellite switch, and serve for multi-users)

MAIN APPLICATION

- ▶ FTTH for DBS
- ▶ Triple-play Overlay DVB-S
- ▶ 4 SAT - IF overlay/ cleavage overlay optical fiber links

TECHNICAL INDEX

Performance			Index			Supplement		
			Min.	Typ.	Max.			
Optical feature	CATV work wavelength		(nm)	1260		1620	GRS-6805	
				1540		1563	GRS-6805/WF, GRS-6805/WD	
	Pass wavelength		(nm)	1310, 1490			GRS-6805/WD	
	Channel isolation		(dB)	40				
	Responsibility		(A/W)	0.85			1310nm	
				0.9			1550nm	
	Receiver power		(dBm)	-15				
	Optical return loss		(dB)	40	45		FC/PC, SC/PC	
				55	60		FC/APC, SC/APC	
	Optical fiber connector				SC/APC		Optional FC/APC, SC/PC,	
	Frequency range Output		VL	(MHz)	950		1950	
			VH		1100		2150	
			HL		950		1950	
			HH		1100		2150	
	Gain ripple across band		(dB)	-3.0		+3.0		
	Gain ripple across 40MHz		(dB)	-0.5		+0.5		
	Channel isolation		(dB)		30			
	In band spurious power		(dB)	-25				
	Out band spurious power		(dB)			-60		
	Gain range		(dB)	-1.0		36		
	Output level		(dBm)	-65		-25		
	Integrated phase noise		(dB)		4.0		1KHz~13KHz	
	OIP3		(dB)	+10				
	Output return loss		(dB)		10			
	Output impedance		(Ω)		75			
	RF number of connector output				4			
	RF connector				F-Female			
TV RF feature	Working frequency		(MHz)	47		862		
				213		230		
				470		854		
				88		108		
	Flatness in band		(dB)	-0.75		+0.75		
	Output level		(dBμV)		70		Pin=-12dBm	
	AGC feature		(dB)	-1.0		+1.0		
	Output impedance		(Ω)		75			
	Number of output out		(ps)		1			
	Return loss		(dB)	14				
	RF port				F-Female			
	Analog TV feature		Test channel	(CH)	59CH(PAL-D)			
			OMI	(dB)		3.8		
			CNR1	(dB)		53.5		Pin=0dBm
			CNR2	(dB)		45.2		Pin=-8dBm
			CTB	(dB)			-65	Pin:+3~-8dBm
			CSO	(dB)			-62	Pin:+3~-8dBm
	Digital TV feature		OMI	(dB)		4.3		
			MER	(dB)	36			Pin=-13dBm
			BER	(dB)			1.0E-9	Pin:+3~-13dBm
General feature	Power supply (DC)		(V)		+18			
	Power consume		(mA)			300		
	External power supply input voltage		(V)	90		265		
	Operating temp.		(℃)	-30		+60		
	Storage temp.		(℃)	-40		+70		
	Size		(mm)	126 ×162×27			(W)x(D)x(H)	

MODEL EXPLANATION

GRS		-	68	0	5	/	□□		-	□□	
SAT receiver (O/E convertor)		Work bandwidth		Satellite multi-switch		RF number of outputs		Optical connector		CWDM	
68		47~862MHz & 950~5950 MHz CATV + 4 SAT-IF		0	Without	5	4 way satellite 1 Way CATV	SA	SC/APC	NC	Without
				4	With 4 × 4 Multiswitch			FP	FC/APC	WD	Build-in CWDM
								SU	SC/PC	WF	Build-in Filter
								FP	FC/PC		