

GRS-5505 (950~5450MHz)

CATV & 4 SAT-IF Optical Receiver

PRODUCT DESCRIPTION

GRS-5505, 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-5505/WD, GRS-5505/WF, can be compatible with any FTTx PON, to realize internet, Full-Band SAT-TV & CATV Triple-play network and FTTH.

GRS-5505 the forepart of the satellite antenna adopt satellite full-channel overlay LNB, such as TOL32, TWL01 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-5505 (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-5505
			1540		1563	GRS-5505/WF, GRS-5505/WD
	Pass wavelength	(nm)	1310, 1490			GRS-5505/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, FC/PC
Frequency feature	Reception frequency range	4 SAT-IF Converted	(MHz)	950		5450
		VL Converted		950		1950
		VH Converted		1950		3000
		HL Converted		3300		4400
		HH Converted		4400		5450
	Frequency Output range	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				4	
	RF connector			F-Female		
TV/RF feature	Working frequency	CATV	(MHz)	47		862
		DAB		213		230
		DTT		470		854
		FM		88		108
	Flatness in band		(dB)	-0.75		+0.75
	Output level		(dBμV)		70	Pin=-12dBm
	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		(V)	90		265	
	Operating temp.		(°C)	-30		+60	
	Storage temp.		(°C)	-40		+70	
	Size		(mm)	143 ×167×27			(W)x(D)x(H)

MODEL EXPLANATION

