

GRS-5504 (950~5450MHz)

4 SAT-IF Optical Receiver

PRODUCT DESCRIPTION

GRS-5504, a kind of 4-band SAT -IF O/E converter, which makes the superposed 4 ways SAT-IF signals in the band 950~5450MHz that transmitted by optic signal cleavage overlay and revert to standard VH,VL, HH, HL 4 ways SAT IF signal (SAT-IF) to output. It can connect 4 * N satellite multi-channel switch, and then serve for multi-users.

GRS-5504/WD, GRS-5504/WF, can be compatible with any FTTx PON, to realize internet, Full-Band SAT-TV & CATV Triple-ply network and FTTH

GRS-5504 the forepart of the satellite antenna adopt satellite channel overlay LNB, such as TOL32, TWL01.



PRODUCT FEATURES

- ▶ Adopt one fiber to transmit 4 ways polarization SAT-IF signal well
- ▶ GRS-5504 (Can connect 4*N multi-switch)

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-5504
			1540		1563	GRS-5504/WF, GRS-5504/WD
	Pass wavelength	(nm)	1310, 1490			GRS-5504/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 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				4		
	RF connector			F-Female			
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

SAT receiver (O/E convertor)		Work bandwidth		Satellite multi-switch		RF number of outputs		Optical connector		CWDM	
55	950~5450 MHz	0	Without	4	4 satellite outputs	SA	SC/APC	NC	Without		
		4	With 4 × 4Multiswitch	5	4 way satellite 1 Way CATV	FP	FC/APC	WD	Build-in CWDM		
						SU	SC/PC	WF	Build-in Filter		
						FP	FC/PC				