

GRS-5544 (950~5450MHz)

4 SAT-IF Optical Receiver (Built-in 4 * 4 Satellite Switch)

PRODUCT DESCRIPTION

GRS-5544, 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), and then pass by the built-in 4 * 4 satellite switch to output 4 way full-channel direct broadcasting satellite TV, and then serve for users.

GRS-5544/WD, GRS-5544/WF, can be compatible with any FTTx PON, to realize internet, Full-Band SAT-TV & CATV Triple-ply network and FTTH

GRS-5544 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-5544 (built-in 4*4 satellite 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-5544
			1540		1563	GRS-5544/WF, GRS-5544/WD
	Pass wavelength	(nm)	1310, 1490			GRS-5544/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
	Polarized control	VL		13V+0Hz		
		VH		13V+22KHz		
		HL		18V+0Hz		
		HH		18V+22KHz		
	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 isolation	(dB)		25		4×4 Satellite Switch
	Output return loss	(dB)		10		
	Output impedance	(Ω)		75		
	RF number of connector output			4		
	RF connector		F-Female			
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)	143 ×167×27			(W)×(D)×(H)

MODEL EXPLANATION

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