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Home Amplifiers

FRA-456/D

Home amplifier

Residential broadband amplifier, 5-42 MHz return path, 10 dB gain



FRA-456/D

	Port	Range	Min	Typical	Max	Unit	Rem	Margin
Frequency Range	Forward path		54		1000	MHz		
	Return path		5		42	MHz		
Connectors	In			F-female			7	
	Out			F-female			7	
	Power			F-female			7	
Power Consumption				2,7	3,5	VA		
Temperature Range	Operating		-20		+40	°C		
Equipment Approval				CE				
Supply Voltage DC				12		VDC		
Return Loss	In/Out	5 MHz < F < 42 MHz	18	22		dB		
		54 MHz < F < 1000 MHz	16,5	18		dB	1	
Isolation	Diplexers	5 MHz < F < 42 MHz	40			dB		
		54 MHz < F < 1000 MHz	40			dB		
Ripple	Forward path	54 MHz < F < 120 MHz				+/-1,5	dB	
		120 MHz < F < 1000 MHz				+/-0,5	dB	
	Return path	5 MHz < F < 35 MHz				+/-0,5	dB	
		35 MHz < F < 42 MHz				+/-1,5	dB	
Gain normal operation	Forward path			10		dB		
	Return path			10		dB		
Noise Figure	Forward path	54 MHz < F < 1000 MHz				5	dB	2
	Return path	5 MHz < F < 42 MHz				10	dB	3
Intermodulation	Return path	IM-2 @ 117 dB μ V		-52		-48	dB	5
		IM-2 @ 117 dB μ V		-60		-48	dB	5
QAM MER degradation						1	dB	
Channel loading	CTB			-84			dB	4
	CSO			-66			dB	4
Screening Effectiveness	-	5 MHz < F < 300 MHz	85	95			dB	6
		300 MHz < F < 470 MHz	80	90			dB	6
		470 MHz < F < 862 MHz	75	85			dB	6
Input port Isolation	Centre core only		60				VAC	
Rated output level	-	5 MHz < F < 42 MHz	120				dB μ V	
		54 MHz < F < 1000 MHz	80				dB μ V	

Remarks:

- F > 40 MHz -1.5 dB/oct, with a minimum of 10 dB
- From input to output
- From output to input
- Loaded with 110 channels @ 70 dB μ V at input
- 117 dB μ V at input port, IM-2 standard two tone test, IM-3 standard three tone test (DIN45004)
- Transfer impedance method according IEC 60728-2 (5-30 MHz)
Absorption clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)
- According to IEC 169-24 (machined thread) inner conductor diameter min.0,51 mm max 1,3 mm.

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