



Art.No. 54450044

Standard article

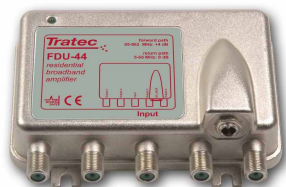
This article is available from stock, barring to unforeseen circumstances

Home Amplifiers

FDU-44

Home amplifier

Residential broadband amplifier, 5-65 MHz return path



FDU-44

	Port	Range	Min.	Typical	Max. Unit	Rem.	Margin
Frequency Range	Forward path		85		862 MHz		
	Return path		5		65 MHz		
Connectors	In			F-female		10	
	Out			F-female		10	
	Power			DC jack Male type			
Temperature Range	Operating		-20		+40 °C		
Equipment Approval				CE			
Supply Voltage DC				12	VDC		
Power Consumption				2,5	W		
Impedance				75	Ohm		
Weight				400	Gram		
Return Loss	In/Out	5 MHz < F < 65 MHz	20			dB	
		85 MHz < F < 862 MHz	18			dB	3
Isolation	Port to port	5 MHz < F < 10 MHz	20			dB	
		10 MHz < F < 65 MHz	30			dB	
		85 MHz < F < 862 MHz	25			dB	
Ripple	Forward path	85 MHz < F < 120 MHz				+/-1 dB	
		120 MHz < F < 862 MHz				+/-0,75 dB	
	Return path	5 MHz < F < 65 MHz				+/-0,6 dB	
Gain	Forward path	85 MHz < F < 862 MHz	3,5	4	4,5 dB	2	
	Return path	5 MHz < F < 65 MHz	-0,5	0	0,5 dB	2	
Noise Figure	Forward path	120 MHz < F < 862 MHz		4	5 dB	4	
	Return path	5 MHz < F < 65 MHz			20 dB	5	
Intermodulation	Forward path	IM-2 (at 77 dBµV outputlevel)		-80	-75 dB	7	
		IM-3 (at 77 dBµV outputlevel)		-100	-90 dB	7	
	Return path	IM-2 (at 117 dBµV outputlevel)		-70	-61 dB	7	
		IM-3(at 117 dBµV outputlevel)		-52	-50 dB	7	
Channel loading	CTB			-82	dB	6	
	CSO			-70	dB	6	
Spurious	-	85 MHz < F < 120 MHz		-110	-100 dB	8	
		120 MHz < F < 862 MHz		-120	-110 dB	8	
Screening Effectiveness	-	30 MHz < F < 300 MHz	85	95	dB	9	
		300 MHz < F < 470 MHz	80	90	dB	9	
		470 MHz < F < 862 MHz	75	85	dB	9	
Surge Protection	In		1000V			1	

spec version: 02

print-date: 25-05-2005

536



FDU-44

Home amplifier

Residential broadband amplifier, 5-65 MHz return path

Art.No. 54450044

Standard article

This article is available from stock, barring to unforeseen circumstances

Port	Range	Min.	Typical	Max. Unit	Rem.	Margin
Remarks:						
1 ModemSafe circuit. IEC-1000-4-5 level 2: 1KV pulse (rise time 1,2 μ S/ fall time 50 μ S). No degradation allowed.						
2 Average gain excluding ripple.						
3 F > 40 MHz -1.5 dB/oct						
4 From input to output						
5 From output to input						
6 Loaded with 110 channels @ 70 dB μ V on the input.						
7 IM-2 standard two tone test, IM-3 standard three tone test (DIN45004)@ 118 dB μ V at input						
8 F1+F2 w.r.t. F1 and F2 @ 118 dB μ V at input port, after 10 pulses 25Vdc (rise time 1,2 μ S /500 μ S duration) at all ports						
9 Absorbion clamp method according IEC-60628-2 § 4.4 (30-862 MHz). Unit complies to CE EN50083-2 class A						
10 According to IEC 169-24 (machined thread) inner conductor diameter min.0,51 mm max 1,3 mm.						

spec version: 02

print-date: 25-05-2005

537