

**OCTOS amplifier FAA-117/D**

**Features:**

- Two amplifiers in one housing
- High Gain
- Flatness 0,5 dB
- High CTB -84 dBc @ 94 dBμV output level
- High CSO -82 dBc @ 94 dBμV output level
- Small 19" Cassette housing
- Current monitoring



**Product information**

The FAA-117/D is a double amplifier in one 10TE wide 3RU cassette housing. Both amplifiers are identical. Amplifier A and B both have a -20dB test point at the output which is situated at the front panel of the housing. Input and output connectors are located at the back. The amplifier uses 24V DC as power and the unit has a self recovering thermal fuse to avoid a complete system to break down at a short circuit failure. The current is monitored for both amplifiers.

As long as the current is within a specified window the alarm contact is not activated. Whenever the supply current is higher or lower than the specified window an alarm is generated and the alarm relay is activated. Every amplifier has its own power supply to increase the reliability by independent powering. Due to the high isolation between the amplifiers they can be used for two different signal packages with 17dB gain or the amplifiers can be cascaded so a 34 dB amplifier is made.

**Specifications**

V1 jan 14, 2009

	Port	Range	Min	Typical	Max	Units	Remark
Frequency Range	In -> Out		40		862	MHz	
	Test Point		40		862	MHz	
Connectors	In	Back		F-female			2
	Out			F-female			2
	Test Point	Front		F-female			2
	Supply	Back		Phoenix 2 pole			
	Relay	Front		2 mm Female			
Temperature Range			5		+40	°C	
			0		+55	°C	
Dimensions	Reduced specification						
Equipment Approval	Outline	W x H x D		50,5x129x172		mm	
Led Indicator				CE			
Current monitor	Bi colour led			Green/Red			3
	Relay output			Closed contact by red bi colour led			
Supply Voltage DC				24		VDC	
Supply Current				500		mA	

**Ordering Information**

FAA-117/D	OCTOS amplifier	Article number:	10450317
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	Port	Range	Min	Typical	Max	Units	Remark
Gain	In -> Out			17,5		dB	
Flatness	Out			+/-0.5		dB	
	Test Point			+/-1		dB	
Return Loss	All ports	40 MHz < F < 862 MHz	18			dB	1
Testpoint	at output of amplifier			-20		dB	
Isolation	Between A and B amplifier		48			dB	
Output Level				94		dBμV	
Noise Figure				6,5	7,5	dB	
Intermodulation	CSO	42 channels@94dBμV		-82		dBc	
	CTB			-84		dBc	
Screening	-	30 MHz < F < 470 MHz	75	85		dB	4
Effectiveness		470 MHz < F < 862 MHz	65	75		dB	4

Remarks	
1	F > 40 MHz -1.5 dB/oct
2	According to IEC 169-24
3	Optical indication on performance: Green both amplifier ok Red mal function of one or both amplifier
4	Transfer impedance method according IEC 60728-2 (5-30 MHz) Absorbion clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)