

Robust Equalizer



Equalizer value	2/3/4/5/6/7/8/9/10 dB	Tolerance ±0.5dB
Frequency range	5-1218MHz	
Attenuation	1218MHz	0.7 dB Typically
Attenuation	5-1218MHz	Note 1
Return loss	5-1218MHz	Grade 2 Note 2
Power passing		No
Male connector	EN61169-24	14 mm nut Pin diameter 1.0mm
Female connector	EN61169-24	With humidity membrane
Screening attenuation	5-1218MHz	Class A Note 3
Physical dimensions	Refer to the mechanical drawing	
Weight	17 g	
Connector material	Brass	
Connector plating	Nickel-tin alloy	
Operating temperature	-25 - +60 °C	

Note 1 The attenuation follows the simple cable attenuation formula, i.e.:

$$A(f) = A_{eq} \times \left(1 - \sqrt{\frac{f}{1218MHz}} \right) - A_{int}$$

A(f) is the attenuation at a the frequency f (in MHz)

A_{eq} is the equalization value, e.g. 5dB. It is the difference in attenuation from 0 to 1218MHz.

A_{int} is the attenuation at 1218MHz, typically 0.6dB

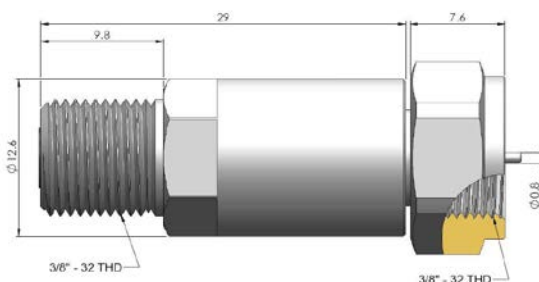
In the low frequency range 5-300MHz the insertion loss deviates from the above formula by maximum 0.6dB

Note 2 According to EN60728-4

Grade 2	5-47MHz	>18dB
	47-1218MHz	>18dB - 1.5dB/oct

Note 3 According to EN50083-2

Class A	5-30MHz	>85dB
	30-300MHz	>85dB
	300-470MHz	>80dB
	470-950MHz	>75dB
	950MHz-1218MHz	>55dB



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Type no.	Item no.	Equalizer value
T2-5-1218F14	44162	2 dB
T3-5-1218F14	44163	3 dB
T4-5-1218F14	44164	4 dB
T5-5-1218F14	44165	5 dB
T6-5-1218F14	44166	6 dB
T7-5-1218F14	44167	7 dB
T8-5-1218F14	44168	8 dB
T9-5-1218F14	44169	9 dB
T10-5-1218F14	44170	10 dB

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