

C-EQU1500HP3

Cable Equalizer

Features

- compact design
- robust mechanic
- lead free

Applications

- signal distribution systems
- cable equalization



Overview

In-house installations (such as broadcast signal distribution systems) often require long RF cable routes. As a result, the higher frequencies are attenuated compared to lower frequencies. C-EQU was designed to compensate this issue. It is a valuable addition to the wideband signal distribution unit WSDU for factory installations with extended cable routes.

Suitable for All Broadcast Standards

The wide frequency range covers AM/FM, DAB, DVB-T and all GNSS frequencies such as GPS. GLONASS and GALILEO.

Easy Installation

The compact design and low weight of C-EQU allows mounting the equalizer directly to the SMA connectors on the rear side of the WSDU components. The small diameter also enables installation inside cable ducts. A SMA female to male adapter is included in delivery.

Individual Equalization

Further equalizer types are available on demand.

RF Specifications

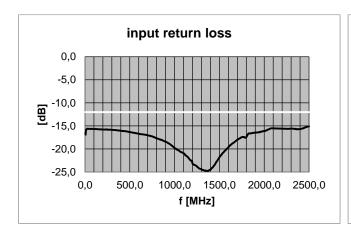
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
impedance	Z _{in} / Z _{out}		50		Ohm	
low frequency	f _{min}		0		Hz	
high frequency	f _{max}	2500		4000	MHz	
return loss	S ₁₁ , S ₂₂		-15	-12	dB	
insertion loss	S ₂₁	-4.6	-5.0	-5.5	dB	AM Band, $f_c = 15 \text{ MHz}$
	S ₂₁	-5.0	-4.8	-4.5	dB	FM Band, f _c = 92 MHz
	S ₂₁	-5.0	-4.0	-3.5	dB	DAB-3 Band, $f_c = 202 \text{ MHz}$
	S ₂₁	-3.0	-2.0	-1.2	dB	DVB-T Band, $f_c = 630 \text{ MHz}$
		-1.0	-0.3	0	dB	DAB-L Band, f _c = 1470 MHz
	S ₂₁	-0.6	-0.3	0	dB	GNSS Bands, $f_c = 1588 \text{ MHz}$
		-1.5	-1.25	0	dB	SAT Bands, f _c = 2332 MHz
3 rd order intercept	OPIP3 ¹	46			dBm	f < 1000 MHz
	OPIP3 ¹	42	44		dBm	f > 1000 MHz
RF connectors		SMA female				

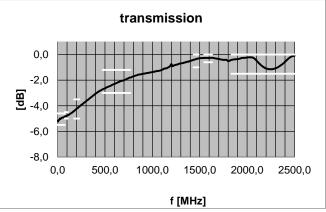
Note 1: tested at Pout 2 x +20 dBm

Common Specifications

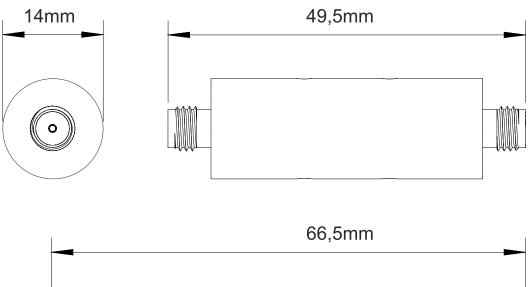
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
dimensions	LxWxH	approx. 50 x 14		mm	length and diameter	
weight	m		20		g	
operating temp. range	T _o	+5		+60	°C	
storage temp. range	Ts	-40		+70	°C	
ordering Information		C-EQU1500HP3		1407.5001.1		
included accessories		adapter SMA/SMA male				

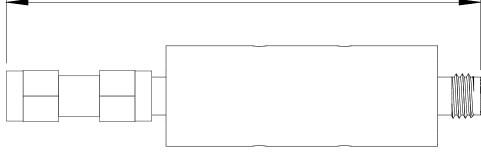
S-Parameters (typical responses)





Mechanical Drawing





Related Products

Product	Description	P/N
WSDU1X8	8 Way Multicoupler 100 kHz 4000 MHz	1202.6100.1