

## C-EQU1500HP3

RF Cable Equalizer with 5 dB loss compensation between FM and GNSS

### Features

- compact and rugged design

### Applications

- broadcast distribution systems
- compensation of cable frequency responses



### At a Glance

In-house installations (such as broadcast signal distribution systems) often require long RF cable routes. As a result, the higher frequencies are more 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 in facility installations.

### Suitable for All Broadcast Standards

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

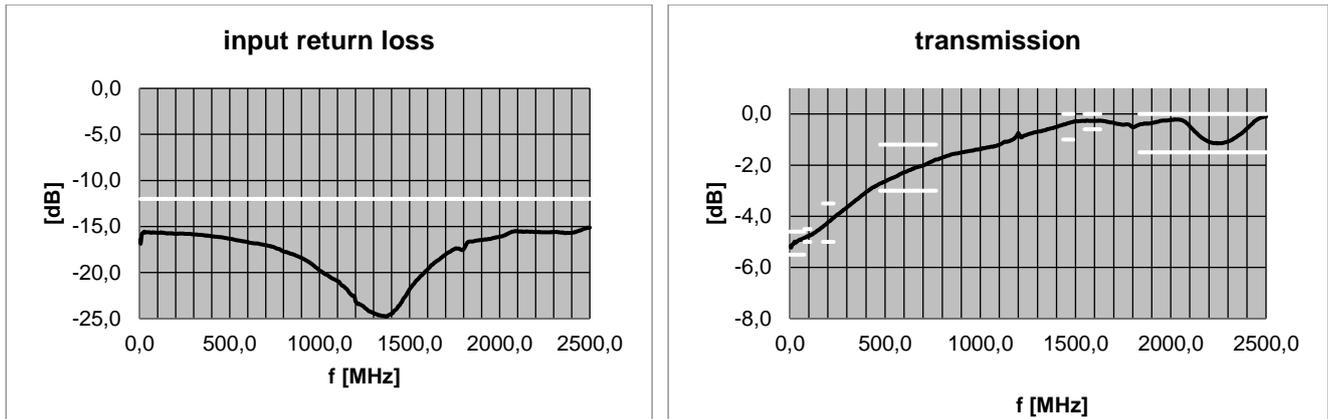
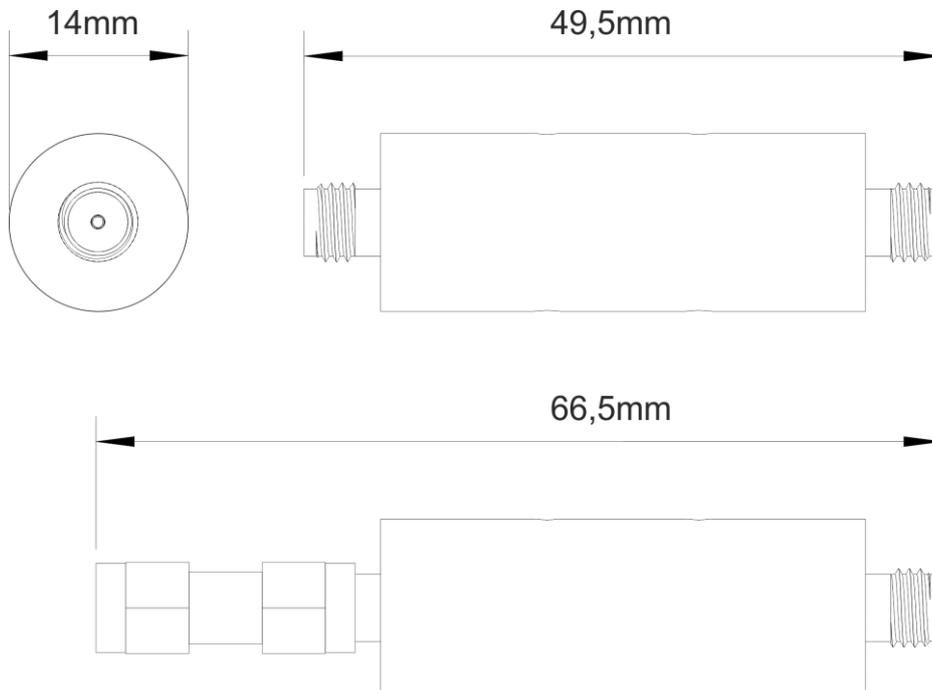
### Individual Equalization

Further equalizer types are available on demand.

### RF Specification

Parameter	Symbol	Min.	Typ.	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		dB	
insertion loss	$S_{21}$	-4.5	-5.0	-5.5	dB	AM Band, $f_c = 15$ MHz
	$S_{21}$	-5.0	-5.0	-4.5	dB	FM Band, $f_c = 92$ MHz
	$S_{21}$	-5.0	-4.0	-3.5	dB	DAB-3 Band, $f_c = 202$ MHz
	$S_{21}$	-3.0	-2.0	-1.2	dB	DVB-T Band, $f_c = 630$ MHz
	$S_{21}$	-0.6	-0.3	0	dB	GNSS Band, $f_c = 1575$ MHz
	$S_{21}$	-1.5	-1.2	0	dB	SAT Band, $f_c = 2332$ MHz
3 <sup>rd</sup> order intercept	OIP3 <sup>1</sup>	+46			dBm	$f < 1000$ MHz
	OIP3 <sup>1</sup>	+42	+44		dBm	$f > 1000$ MHz
maximum RF power	$P_{RF}$			+20	dBm	
maximum DC voltage	$U_{DC}$			20	V	
RF connectors		SMA female				
dimensions	W x D	approx. 50 x 14			mm	length and diameter
weight		20			g	
operating temp. range	$T_o$	+5		+60	°C	
storage temp. range	$T_s$	-40		+70	°C	
ordering Information	P/N:	1407.5001.1		C-EQU1500HP3		
included accessories		adapter SMA/SMA male				

Note 1: tested at  $P_{out} 2 \times +17$  dBm

**S-Parameters (typical response)****Dimensions****Related Products**

Product	Description	P/N
WSDU-1X8	8 Way Multicoupler 100 kHz ... 4000 MHz	1202.6100.1
WSDU-1X8L	High Dynamic 8 Way Multicoupler Module 100 kHz ... 4000 MHz	1807.6100.1
WSDU-1X8A	8 Way High Dynamic Signal Conditioning Multicoupler 100 kHz...4000 MHz	1807.6300.1
C-EQU1500HP15	RF Cable Equalizer with 15 dB loss compensation between FM and GNSS	1407.5002.1