

C-EQU1500HP15

RF Cable Equalizer with 15 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.	Тур.	Max.	Unit	Condition
impedance	Zin / Zout		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		-18		dB	FM Band, f _c = 100 MHz
	S ₂₁		-17		dB	DAB-3 Band, f _c = 200 MHz
	S ₂₁		-8		dB	DVB-T Band, f _c = 780 MHz
	S ₂₁		-3		dB	GNSS Bands, f _c = 1575 MHz
3 rd order intercept	OIP31	+46			dBm	f < 1000 MHz
	OIP31	+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	WxD	apı	prox. 50	x 14	mm	length and diameter
weight			20		g	
operating temp. range	To	+5		+60	°C	
storage temp. range	Ts	-40		+70	°C	
ordering Information	P/N:	1407.5	002.1	C-EQU1	500HP15	
included accessories		adapte	r SMA/S	MA male		
Note 1: tested at D = 2 x ± 17	dD.m					·

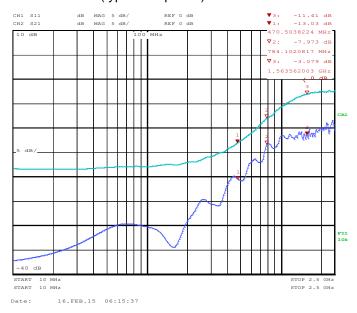
Note 1: tested at Pout 2 x +17 dBm

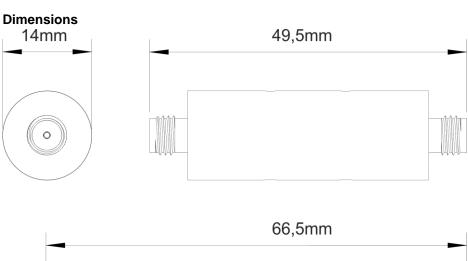
Becker Nachrichtentechnik GmbH ■ Kapellenweg 3 ■ 53567 Asbach - Germany ■ www.becker-rf.com





S-Parameters (typical response)







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 kHz4000 MHz	1807.6300.1
C-EQU1500HP5	RF Cable Equalizer with 5 dB loss compensation between FM and GNSS	1407.5001.1

Becker Nachrichtentechnik GmbH ■ Kapellenweg 3 ■ 53567 Asbach - Germany ■ www.becker-rf.com



