

DCT DELTA LHD 41

LINE EXTENDER



- Prepared for network monitoring
- 1 GHz bandwidth, modular way back over diplexer
- Without interruption and electronically adjustable
- No supplies needed for basic settings
- 7-segment display, easiest adjustment via push button
- Return bandwidth up to 105 MHz
- AGC module available
- With FOSTRA-F: IDS 0 / 6 / 45dB in return switchable (option)
- Two outputs, input/output horizontal or vertical
- Aluminium die cast IP 65, cable mounting possible

SPECIFICATIONS

DOWNSTREAM					
Frequency range	MHz	85 105 *)		1006	Modular diplexer
Gain v1	dB	40	40,5	41	Port to port gain incl. diplexer
Gain v2	dB	30	30,5	31	V switch 30/40dB
Ripple	dB			±0,5	± 0,75 @ 862...1006MHz
Gain reduction at filter edges	dB			0,5	Last two MHz per diplexer
Cable simulator	dB		0 / 5 / 10		Switchable
Input attenuator	dB	0		20	By 1 dB steps, electrical
Regulation range	dB	± 3,0	± 3,5	± 4,0	Via Digital, PAL or CW channel
Noise figure v= 40 dB Tu / Ta ≤ 40°C	dB			7,5 7 7,5 8	0-250MHz 250-750 750-850 950-1006MHz
Internal test point at DS input (attenuation)	dB	17,5	20	22,5	Bidirectional Ff-connector
Internal test point at DS output (attenuation)	dB	19,25	20	20,75	Unidirectional Ff-connector
Output level 41 Ch, CENELEC, flat, CSO/CTB>60 dB	dBμV	110			Without K2

*) Depends on diplexer configuration

UPSTREAM WITH INTEGRATED RETURN PATH AMPLIFIER					
Frequency range	MHz		5-65/ 5-85 *)		On board select by diplexer
Gain	dB	25,5	26	26,5	
Plug in slot <i>UPP2 / JXP</i>		JXP for an additional low pass filter LPF 5-xx			
Ingress detection switch	dB	0 / 6 / 45			Switchable by FOSTRA-F
Return loss input and output	dB	18 1,5 dB / Oct			5-108 MHz EN 60728-3/2012
Noise figure	dB		5	7	Tu / Ta ≤ 40°C
Internal test point at DS input (attenuation)	dB	18,5	20	21,5	Bidirectional Ff-connector
Input level 40dB NPR @ 50MHz load 50dB NPR @ 50MHz load	dBmV / Hz	-72 -64		-41 -41	
COMMON DATA					
Input power	V ~ V ~	185 30	230 50	265 90	50 Hz, LHD 41 50 Hz, LHD 41R
Internal supply voltage	V =		12,8 3,3		
Ambient temperature	°C	- 40		+ 60	- 20...+ 50 with DOCSIS transponder
EMC-conditions Sadiated power Screening efficiency	dBpW	acc. to EN 50083-2: 2006 < 20 Class A			30-950 MHz
Protective system		IP 65			5/8" adapter ring included
Dimensions B x H x T	mm	225 x 195 x 95			Die cast housing
FOSTRA-F SWITCHING OPTIONS		WITH FOSTRA-F		WITHOUT FOSTRA-F	
Upstream input attenuation (IDS)	dB	0 / 6 / 45		0	

