

2-port push on adapters

with band pass filter, IEC-male & F-female outputs



24100012
POA-085



24100015
POA-254

- Suitable for mounting onto antenna outlets with IEC-male at TV-port
- 1 input IEC-female at rear side
- 2 outputs, each one IEC-male and F-female
- Intermodulation resistant according to EN 60728-4 and after 1kV pulse applied at each port

- High screening according to EN 50083-2 Class A +10 dB
- Surface coated with CuSn white bronze plating, thereby corrosion resistant
- Supplied with a protection plastic cap (Pure white RAL 9010)
- TV/Radio-port (IEC-male) with band pass filter (specifications below)
- Data-port broadband 5 – 2.000 MHz

Parameter		Frequency [MHz]	POA-085	POA-254
Insertion Loss [dB]	IN – TV/Radio	5 – 65	55 min. ⁽³⁾	60 typ., 55 min.
		65 – 204	4,7 + 0,3 ⁽²⁾	60 typ., 50 min.
		254 – 862	4,7 + 0,3 ⁽²⁾	4,7 + 0,3 ⁽⁴⁾
		950 – 2.000	55 min. ⁽⁵⁾	55 min. ⁽⁶⁾
	IN – Data	5 – 862	3,7 + 0,3	3,7 + 0,3
		862 – 1.006	4,0 + 0,4	4,0 + 0,4
		1.006 – 1.218	4,4 + 0,5	4,4 + 0,5
		1.218 – 1.700	4,8 + 0,8	4,8 + 0,8
	1.700 – 2.000	5,5 + 1,0	5,5 + 1,3	
Return Loss [dB]	IN	5 – 12	13 min.	13 min.
		12 – 65	20 min.	20 min.
		65 – 204	20 ⁽¹⁾	20 ⁽¹⁾
		254 – 862	20 ⁽¹⁾	20 ⁽¹⁾
		950 – 1.218	14 min.	14 min.
		1.218 – 2.000	14 typ., 12 min.	14 dB., 12 min.
	TV/Radio	85 – 254	20 ^{(1) (7)}	–
		254 – 862	20 ^{(1) (7)}	20 dB ^{(1) (8)}
	Data	5 – 12	13 min.	13 min.
		12 – 1.218	20 ⁽¹⁾	20 ⁽¹⁾
1.218 – 2.000		12 min.	12 min.	
Isolation [dB]	TV/Radio – Data	5 – 65	55 min. ⁽³⁾	60 typ., 55 min.
		65 – 204	35 typ. 30 min. ⁽⁹⁾	60 typ., 55 min. ⁽¹⁰⁾
		254 – 862	35 typ. 30 min. ⁽⁹⁾	35 typ. 30 min. ⁽⁹⁾
		950 – 2.000	55 min. ⁽⁵⁾	55 min. ⁽⁶⁾
Band pass filter at TV/Radio port [MHz]	Reject band 1	5 – 65	5 – 204	
	Pass band	85 – 862	254 – 862	
	Reject band 2	950 – 2.000	950 – 2.000	
Intermodulation [dBµV] ⁽¹¹⁾	after 25 V surge	≤ 10	≤ 10	
	after 1 KV surge	≤ 10	≤ 10	
Order No.			24100012	24100015

⁽¹⁾ At 40 MHz -1.5 dB/Oct.

⁽²⁾ In frequency range 85 – 125 MHz with additional 0,5 dB loss; means 5,5 dB max.

In frequency range 750 – 800 MHz with additional 0,5 dB loss; means 5,5 dB max.

In frequency range 800 – 862 MHz with additional 2,0 dB loss; means 7,0 dB max.

⁽³⁾ In frequency range 50 – 65 MHz with additional 2,0 dB tolerances in mass production

⁽⁴⁾ In frequency range 254 – 260 MHz with additional 0,5 dB loss; means 5,5 dB max.

In frequency range 750 – 800 MHz with additional 0,5 dB loss; means 5,5 dB max.

In frequency range 800 – 862 MHz with additional 2,3 dB loss; means 7,3 dB max.

⁽⁵⁾ In frequency range 950 – 1000 MHz with additional 2,0 dB tolerances in mass production

⁽⁶⁾ In frequency range 950 – 1000 MHz with additional 5,0 dB tolerances in mass production

⁽⁷⁾ In frequency range 85 – 100 MHz with additional 2,0 dB tolerances in mass production

⁽⁸⁾ In frequency range 254 – 260 MHz with additional 2,0 dB tolerances in mass production

⁽⁹⁾ In frequency range 470 – 862 MHz with additional 2,0 dB tolerances in mass production

⁽¹⁰⁾ In frequency range 198 – 204 MHz with additional 2,0 dB tolerances in mass production

⁽¹¹⁾ With 2 carriers 60 & 65 MHz (115 dBμV) applied at OUT – OUT ports, according to EN 60728-4 and after 1 kV surge pulse at each port, intermodulation distortion level is ≤ 10 dBμV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz.