

BROADBAND PUSH ON ADAPTERS

PUSH ON ADAPTERS | Series with 2-ports to 3-ports



COAX NETWORKS

“PUSH ON ADAPTERS”

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Version 1.1

DATASHEET

INTRODUCTION

Our different adapters are available from 2-port to 3-port with 5 – 2000 MHz. To make it corrosion resistant, the surface of every single adapter is coated with CuSn white bronze plating.



All adapters are intermodulation resistant according EN 60728-4 and have a high screening according Class A +10 dB.

PRODUCTS

- 3 **2-PORT AND 3-PORT
BROADBAND PUSH ON ADAPTERS
UP TO 2 GHz
“POA-0x-UPC series”**

- 4 **2-PORT AND 3-PORT
PUSH ON ADAPTERS UP TO 2 GHz
WITH SELECTIVE RADIO-PORT
“POA-x-IEC-NL series”**

- 6 **2-PORT
BROADBAND PUSH ON ADAPTERS
UP TO 2 GHz
“POA-01-A”
“POA-01-B”**

2-PORT AND 3-PORT BROADBAND PUSH ON ADAPTERS UP TO 2 GHz

PRODUCT OVERVIEW

“POA-0x-UPC series”

Parameter	Frequency [MHz]	2-port	2-port	3-port	3-port	
		POA-01-UPC	POA-02-UPC	POA-03-UPC	POA-04-UPC	
Through loss [dB]	IN - PORT	5 - 12	4.0 ± 0.3	4.0 ± 0.3	6.0 ± 0.5	6.0 ± 0.5
		12 - 470	3.8 ± 0.5	3.8 ± 0.5	5.7 ± 0.3	5.7 ± 0.3
		470 - 1006	4.0 ± 0.4	4.0 ± 0.4	6.0 ± 0.5	6.0 ± 0.5
		1006 - 1700	4.6 ± 0.5	4.6 ± 0.5	7.4 ± 0.5	7.4 ± 0.5
		1700 - 2000	5.2 ± 0.8	5.2 ± 0.8	8.5 ± 1.5	8.5 ± 1.5
Isolation [dB]	PORT - PORT	5 - 30	≥ 25	≥ 25	≥ 25	≥ 25
		30 - 470	≥ 30	≥ 30	≥ 25	≥ 25
		470 - 1006	≥ 25	≥ 25	≥ 25	≥ 25
		1006 - 1700	≥ 20	≥ 20	≥ 20	≥ 20
		1700 - 2000	≥ 15	≥ 15	≥ 15	≥ 15
Return loss [dB]	ALL	5 - 12	≥ 14	≥ 14	≥ 14	≥ 14
		12 - 1006	≥ 16	≥ 16	≥ 16	≥ 16
		1006 - 1700	≥ 14	≥ 14	≥ 14	≥ 14
		1700 - 2000	≥ 12	≥ 12	≥ 12	≥ 12
MoCA reduced isolation ⁽¹⁾ [dB max]	1200 - 1650	20	20	20	20	
Intermodulation ⁽²⁾ [dBqV min]		115	115	115	115	
Amount ports		2	2	3	3	
Input		IEC-female	F-quickfix	IEC-female	F-quickfix	
Broadband output		IEC-male	F-female	IEC-male	F-female	
Item No.		42137	42138	42139	42140	

⁽¹⁾ With open input (accordant POE-Filter)

⁽²⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA,

TV OUT respectively, intermodulation distortion level is ≤ 15 dBuV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz

ADDITIONAL INFORMATION

- Suitable for mounting onto the TV-port of antenna outlets
- Supplied with a protection plastic cap



2-PORT AND 3-PORT PUSH ON ADAPTERS UP TO 2 GHz WITH SELECTIVE RADIO-PORT

PRODUCT OVERVIEW

“POA-x-IEC-NL series”

Parameter		Frequency [MHz]	2-port	3-port
			POA-1-IEC-NL	POA-3-IEC-NL
Through loss [dB]	IN - TV (IN - DATA)	5 - 65	0.7 ± 0.5	4.6 ± 0.5
		65 - 120	> 20 typ.	> 20 typ.
		120 - 1218	0.7 ± 0.5	4.6 ± 0.5
		1218 - 1700	1.3 ± 0.5	6.2 ± 0.5
		1700 - 2000	1.7 ± 0.5	7.2 ± 0.5
	IN - FM	87.5 - 108	2.0 ± 0.5	2.0 ± 0.5
Isolation [dB]	TV - FM (DATA - FM)	5 - 65	≥ 25	≥ 32
		65 - 120	-	-
		120 - 470	≥ 20	≥ 20
		470 - 1218	≥ 25	≥ 25
		1218 - 1700	≥ 22	≥ 25
	(TV - DATA)	1700 - 2000	≥ 20	≥ 25
		5 - 15	-	≥ 20
		15 - 65	-	≥ 30
		65 - 120	-	-
		120 - 1218	-	≥ 20
Return loss [dB]	IN	1218 - 1700	-	≥ 16
		1700 - 2000	-	≥ 14
		5 - 12	≥ 14	≥ 18
		12 - 65	≥ 16	≥ 18
		87.5 - 108	≥ 16	≥ 15
	TV (DATA)	108 - 1006	≥ 16	≥ 18*
		1006 - 2000	14 typ.	≥ 18*
		5 - 12	≥ 14	≥ 18
		12 - 65	≥ 16	≥ 18
		120 - 1006	≥ 16	≥ 18*
FM	1006 - 2000	14 typ	≥ 18*	
	87.5 - 108	15 typ	15 typ	
Intermodulation ⁽¹⁾ (dBQV min)			115	115
Amount ports			2	3
TV-port			5 - 65 MHz 120 - 2000 MHz (IEC-male)	5 - 65 MHz 120 - 2000 MHz (IEC-male)
Radio-port (selective)			87 - 108 MHz (IEC-female)	87 - 108 MHz (IEC-female)
DATA-port			-	5 - 65 MHz 120 - 2000 MHz (F-female)
Item No.			42114	42115

* f > 40 MHz -1.5 dB/Oct. min. > 12 dB

⁽¹⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA, TV OUT respectively, intermodulation distortion level is ≤15 dBuV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130MHz

ADDITIONAL INFORMATION

- Suitable for mounting onto antenna outlets with IEC-male at TV-port
- TV and DATA-ports with FM filter, therefore transmission range 5 - 65 & 120 - 2000 MHz (no FM, S 2 and S 3)
- Supplied with a protection plastic cap



2-PORT BROADBAND PUSH ON ADAPTERS UP TO 2 GHz

PRODUCT OVERVIEW

“POA-01-A”

2-port

Parameter	Frequency [MHz]	POA-01-A	
Through loss [dB]	IN - PORT	5 - 12	4.0 ± 0.8
		12 - 470	3.8 ± 0.8
		470 - 1006	4.0 ± 0.7
		1006 - 1300	4.3 ± 0.8
Isolation [dB]	PORT - PORT	5 - 30	≥ 22
		30 - 470	≥ 20
		470 - 1006	≥ 20
		1006 - 1300	≥ 20
Return loss [dB]	ALL	5 - 12	≥ 14
		12 - 1006	≥ 16
		1006 - 1700	≥ 14
		1700 - 2000	≥ 12
Intermodulation		115	
MoCA reduced isolation ⁽²⁾ [dB max]	1200 - 1650	20	
Amount ports		2	
Input		IEC-female	
Broadband output		IEC-male	
Item No.		42135	

⁽¹⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA, TV OUT respectively, intermodulation distortion level is ≤ 15 dBuV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz

⁽²⁾ With open input (accordant POE-Filter)

PRODUCT OVERVIEW

“POA-01-B”

2-port

Parameter	Frequency [MHz]	POA-01-B	
Through loss [dB]	IN - PORT	5 - 860	3.7 ± 0.3
		860 - 1006	4.0 ± 0.4
		1006 - 1218	4.4 ± 0.5
		1218 - 1700	4.6 ± 0.5
		1700 - 2200	5.2 ± 0.8
Isolation [dB]	PORT - PORT	5 - 15	≥ 20
		15 - 40	≥ 26
		40 - 1218	≥ 26 -1.5 dB/Oct.
		1218 - 1700	≥ 20
		1700 - 2000	≥ 15
Return loss [dB]	ALL	5 - 12	≥ 13
		12 - 40	≥ 20
		40 - 1218	≥ 20 -1.5 dB/Oct.
		1218 - 1700	≥ 14
		1700 - 2000	≥ 12
Intermodulation [dBqV min] ⁽¹⁾	after 25 V surge	≤ 10	
	after 1 kV surge	≤ 10	
MoCA reduced isolation [dB max]			
Amount ports		2	
Input		IEC-female	
Broadband output		IEC-male	
Item No.		42136	

⁽¹⁾ 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 dBuV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz.

ADDITIONAL INFORMATION

- Suitable for mounting onto antenna outlets with IEC-male at TV-port
- Supplied with a protection plastic cap without height adjustment (RAL 9010)

