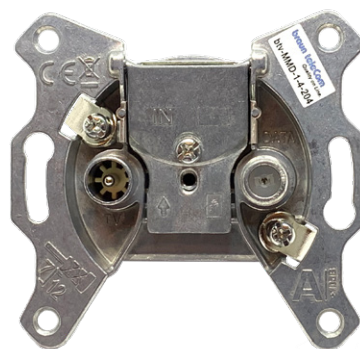


DATASHEET

BTV-MMD-1-4-204

52685 | 2-Port broadband multimedia end outlet 5 - 1800 MHz with 204 MHz low insertion loss upstream, DATA (Ff) and TV (IECM), TV-Port with 258 ~ 1800 MHz



MECHANICAL SPECIFICATIONS

Parameter		btv-MMD-1-4-204
Housing	Material	Zinc die-casting
	IN & OUT	Cable clamp + center pin with „push-button“
Connectors	TV	IEC-Male acc. to IEC / EN 61169-2 (IEC connector pin plated with CuSn white bronze)
	DATA	F-female Ø9.45 3 0.05 mm, acc. to IEC/EN 61169-24, machine thread (contact spring plated with CuSn white bronze)
Cable		IN/OUT cable center pin accept range = 0.4 - 1.2 mm
		IN/OUT cable outer conductor accept range = 3.1 - 6.0 mm
		IN/OUT cable outer jacket accept range = 4.1 - 7.2 mm
		IN/OUT cable center pin pull out force >20N @center pin = 0.6 - 1.13 mm IN/OUT cable outer conductor pull out force >50N @outer conductor = 3.2 - 5.8 mm

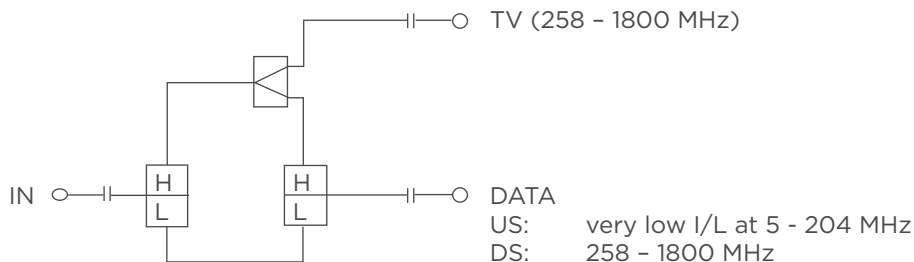
ELECTRICAL SPECIFICATIONS

Parameter	Frequency [MHz]	btv-MMD-1-4-204
Screening [dB min] (According to EN 50083-2) Class A+10 dB	5 - 12	85
	12 - 30	95
	30 - 300	95
	300 - 470	90
	470 - 950	85
	950 - 1800	65
Harmonic Distortion ¹⁾ [dBuV] All Ports (According to IEC-60728-4)	before surge	< 2
	after 25 V surge	< 15
Surge Immunity (according to IEC 61000-4-5 level 2)	-	1 kV (1.2/50 Qs, internal resistance = 42 Ω)
Operating Temperature Range [°C]	-	0 ~ +55

¹⁾ with test signals applied at all ports @ 120 dBuV
Test 1: signal 2 tones P @ 60 MHz, Q @ 65 MHz
Test 2: signal 2 tones P @ 199 MHz, Q @ 204 MHz



BLOCK DIAGRAM



ELECTRICAL SPECIFICATIONS

Parameter	Frequency [MHz]	btv-MMD-1-4-204	
Insertion Loss [dB]	IN-DATA Upstream	5 ~ 190	0.6 ± 0.5
		190 ~ 197	0.6 ± 0.5
		197 ~ 204	0.6 ± 0.5 (*B)
	IN-DATA Downstream	258 ~ 1006	5.5 ± 0.8 (*A)
		1006 ~ 1218	5.5 ± 0.8
		1218 ~ 1700	5.5 ± 1.5 (*C)
		1700 ~ 1800	5.5 ± 1.5 (*D)
	IN-TV	5 ~ 65	50 min.
		65 ~ 184	50 min.
		184 ~ 204	47 min.
		258 ~ 862	4.8 ± 0.8 (*A)
		862 ~ 1218	4.8 ± 1.0
1218 ~ 1700		4.8 ± 1.5 (*C)	
1700 ~ 1800		4.8 ± 1.5 (*D)	
Isolation [dB]	TV-DATA	5 ~ 65	65 typ. 55 min.
		65 ~ 204	60 typ. 55 min.
		204 ~ 258	55 ~ 26 min.
		258 ~ 862	30 typ. 26 min.
		862 ~ 1006	30 typ. 24 min.
		1006 ~ 1218	25 typ. 20 min.
		1218 ~ 1500	25 typ. 20 min.
Return Loss [dB, min.]	IN	5 ~ 10	16
		10 ~ 47	18
		47 ~ 752	18 *
		752 ~ 1218	18 *
		1218 ~ 1800	18 *, min. 10 dB
	TV	258 ~ 1218	14 **
		1218 ~ 1800	14 **
	DATA	5 ~ 10	16
		10 ~ 47	18
		47 ~ 1800	18 *, min. 10 dB
Impedance	-	75 Ω	

* at 47 MHz -1.5 dB/OCT.

** at 258 MHz -1.5 dB/OCT.

* A). In frequency range 258 - 266 MHz with additional 0.5 dB loss

* B). In frequency range 196 - 204 MHz with additional 0.5 dB loss

* C). In frequency range 1650 - 1700 MHz with additional 0.5 dB loss

* D). In frequency range 1750 - 1800 MHz with additional 0.5 dB loss

ACCESSORIES

SAD-122

Cover plate, white colored RAL 9010,
with removable blind cap at the radio-port
Item no. 53093



SAD-122 NO STICKER

Cover plate, white colored RAL 9010,
with removable blind cap at the radio-port
Item no. 53095



SAD-165

Surface-mount frame SAD-165,
80 x 80 x 33 mm, color white RAL 9010
Item no. 53094

