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30 years in cable communication...

RF ACTIVE & PASSIVE EQUIPMENT



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LA-140 A/B HIGH POWER GaAs-FET AMPLIFIER

Features

- High power GaAs-FET amplifier
- Low distortion and low noise
- High gain, switchable 30 / 40 dB
- Electronic step attenuators for slope and loss on board
- Integrated LED 7-segment display
- Most flexible configuration by plug-in PAD stations
- 2 outputs by splitter or tap
- Return path amplifier -4/24/30 dB and duplexers on board
- AGC module available
- 10 A power pass
- High protection against burst and surge up to 4,5 kV
- Strand (option) and cabinet mount (standard)
- Vertical and horizontal cable entry possible



Downstream	Units	LA 140-B	LA 140-A
Frequency range	MHz	85 - 1006 (fixed diplexer) Diplexer 30/47 or 42/54 MHz optional	
Gain	dB	30 / 40 (switchable)	
Noise figure	dB	5	
Flatness	dB	± 0,5	
Attenuator	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Equalizer	dB	0 ... 25 (electronic attenuator by 1 dB steps)	
Interstage attenuation	dB	0, 1, 2 10 (by PAD's in 1 dB steps)	
Interstage equalizer	dB	3, 6, 9, 12 (by PAD's EZL)	
Testpoint input, 5-1006 MHz	dB	-20 (F-connector, internal)	
Testpoint output, 5-1006 MHz	dB	-20 (F-connector, internal)	
Return loss input / output	dB	> 20 at 40 MHz (-1,5 dB/octave up to 1006 MHz)	
Output level 41 channel CENELEC CSO > 60 dB CTB > 60 dB		slope 6 dB	
	dBμV	113	
	dBμV	111	
Upstream	Units	LA 140-B	LA 140-A
Frequency range	MHz	5 - 65 (fixed diplexer) Diplexer 30/47 or 42/54 MHz optional	
Gain	dB	-4 / 24 / 32 (passive / active by jumper selectable)	
Noise figure	dB	6	
Flatness	dB	± 0,5	
Input attenuator		0, 1, 2 20 (by PAD's in 1 dB steps)	
Output attenuator	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Output equalizer	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Testpoint 5-65 GHz	dB	-20 (F-connector, internal)	
Output level IMA 2 -60 dB (DIN 45004A1) IMA 3 -60 dB (DIN 45004B)	dBμV	108	
	dBμV	116	

General	Units	LA 140-B	LA 140-A
Operating voltage	V	185 - 265	28 - 70
Power consumption	W	14	0,6 ... 0,3 A
Power passing capability	A	-	10
Connectors		PG11 or 5/8	
Protection according to IEC 529		IP65	
Operating temperature range	°C	-20 ... 60	
Dimensions	mm	225 x 190 x 86	
Weight	kg	2,4	

LA-141 LINE EXTENDER

Features

- High power GaAs-FET amplifier
- Low distortion and low noise
- High gain, switchable 30 / 40 dB
- Electronic step attenuators for slope and loss on board
- Integrated LED 7-segment display
- Most flexible configuration by plug-in PAD stations
- 2 outputs by splitter or tap
- Return path amplifier -4/24/30 dB and diplexers on board
- AGC module available
- 10 A power pass
- High protection against burst and surge up to 4,5 kV
- Strand (option) and cabinet mount (standard)
- Vertical and horizontal cable entry possible



Electrical and general RF specification	Units	min.	typ.	max.	Remarks
input power	V	185 30	230 50	265 65*	50 Hz, LA-141 50 Hz, LA-141R
power supply type		Switch Mode power supply			
power cord length	m	1,1	1,3		
power consumption	W		16,5 16,5		@ 230 V @ 50 V
max. remote current	A ~ eff			10	

Downstream	Units	min.	typ.	max.	Remarks
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 2 MHz per diplexer
Cable simulator	dB		0 / 5 / 10		switchable
Input attenuator	dB	0		20	by 1 dB steps, electronic
Input equalizer @ 1006MHz or 862 MHz umschaltbar / switchable 0 Pkt.-Dämpfung / 0 point loss	dB	0		25	by 1 dB steps, electronic
	dB		±0,5	±1,0	at pivot point
interstage attenuation	dB	0		6	via PAD 1dB step@ UPP1
ISlope @ 1006MHz 0 point loss	dB	0		15	by 1 dB steps, electronic
	dB		±0,5	±1,0	at pivot point
AGC regulation range	dB	± 3,0	± 3,5	± 4,0	via Digital, PAL or CW channel
Plug-in slot UPP1		JXP for PAD, Equalizer EZL, Deemphasis			free usable
return loss input and output	dB	18 - 1,5dB / Okt. min. 12 @ 1006MHz			Reference: 40MHz
noise figure v= 40 dB Ta ≤ 40 °C	dB			7,5 7 7,5 8	0-250MHz 250-750 750-850 950-1006MHz
output level 41 Ch, CENELEC, flat, CSO/CTB>60 dB 9 dB slope	dBμV	110 114			without K2
Upstream	Units	min.	typ.	max.	Remarks
frequency range	MHz		5-65 / 5-85 *		On board select by diplexer
gain	dB	25,5	26	26,5	
ripple	dB			± 0,75	
gain reduction at filter edges	dB			0,5	Last 2 MHz per diplexer
Plug-in slot UPP2 / JXP		JXP for an additional low pass filter LPF 5-xx			
Ingress detection switch	dB	0 / 6 / 45			Switchable by FOSTR-A-F

* Depends on diplexer configuration

HA-GAAS-33 DISTRIBUTION AMPLIFIER WITH RETURN PATH

Features

- Compact die-cast aluminium house
- Active return path with GaAs module
- 12dBμV output power
- Steppless EQ/tilt (0-18dB)
- -30°C ... +55°C operating temperature
- Local (230V) or line (60V) feeding



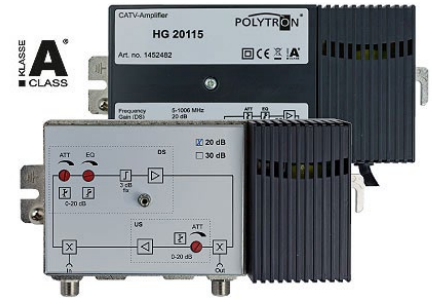
Model name	Description
LA 833 A 30/47	Line powered (60V), 1-way amplifier with 30/47 MHz duplex filter
LA 833 A 65/85	Line powered (60V), 1-way amplifier with 65/85 MHz duplex filter
LA 833 B 30/47	Local powered (230V), 1-way amplifier with 30/47 MHz duplex filter
LA 833 B 65/85	Local powered (230V), 1-way amplifier with 65/85 MHz duplex filter

Type	HaGaAs 33	
Frequency range	forward path	85 ... 860MHz
	return path	5 ... 65MHz
Gain	forward path	33dB
	return path	12dB
Gain adjustment		0-33dB
Slope adjustment	input	0/10dB
	interstage	0/6dB
Frequency response		± 0.5dB
Distortion	CSO	60 dB @ 42ch, 108 dBμV
	CTB	60 dB @ 42ch, 112 dBμV
Input and output return loss		16 dB – 1.5 dB/octave typ.
Technology	forward	GaAs
	reverse	Si
Test point attenuation		-
Input voltage		A: 24V - 65V AC (50Hz) or B: 230V AC ± 10% (50 Hz)
AC current pass (max)		6A
Noise figure	forward	≤ 8 dB
	reverse	≤ 7 dB
Power consumption (max)		14 W
Operating temperature range		-30°C ... +55°C
Dimension		215 x 117 x 85 mm
Weight (packed)		2.3 kg

POLYTRON HG 20115

Features

- frequency range 5–1006 MHz
- settings via potentiometer
- interstage equalization 3 dB fix
- built-in return path
- die-cast housing
- interruption-free setting

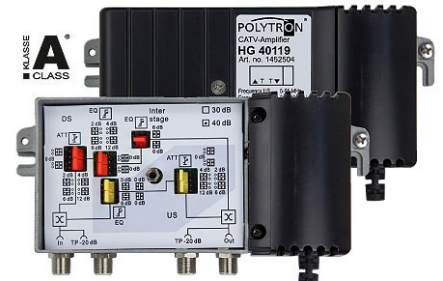


Typ / Type	HG 20115
Frequency range DS	85–1006 MHz
Gain	20 dB
Attenuator	0–20 dB
Equalizer	0–20 dB
Interstage pre equalization	3 dB
Noise figure	≤ 6,5 dB
Output level	
Cenelec 42 CTB / CSO flat	98 dBμV
IMA3 60 dB	115 dBμV
Return path	
Return path freq. US	5–65 MHz
Gain return path	16 dB
Attenuator	0–20 dB
Output level max.	IMA3 60 dB: 115 dBμV
Operating voltage	230 V~
Power consumption	4,4 W
Dimensions (WxHxD)	(IP30) 174 x 80 x 47 mm

POLYTRON HG 30119 / 40119

Features

- frequency range 5–1006 MHz
- settings via jumper
- built-in return path
- adjustable interstage equalization
- test point -20 dB in/out



Type	HG 30119	HG 40119
Article no.	1452493	1452504
Frequency range DS	85–1006 MHz	85–1006 MHz
Gain	31 dB	40 dB
Attenuator	0–16 dB	
Equalizer	0–16 dB	
Interstage pre equalization	0 / 6 dB	
Noise figure	Typ. 6,5 dB	
Output level		
Cenelec 42 CTB / CSO flat	100 dBμV	
IMA3 (60 dB)	117 dBμV	
Return path		
Return path freq. US	5–65 MHz	
Gain return path	26 dB	29 dB
Attenuator	0–16 dB	
Output level max.	IMA3 60 dB: 115 dBμV	
Operating voltage	230 V~	
Power consumption	8 W	
Dimensions (WxHxD)	(IP20) 175 x 75 x 55 mm	

HA / HAR 651-15 COMPACT AMPLIFIER FAMILY

Features

- Mini size with excellent parameters
- GaAs technology
- Zinc alloy housing, nickel plated
- Waterproof F ports (IP 67)
- 1 KV blockin capacitors on all RF ports
- Low noise level
- Regulator IC allows
wide input voltage range (9~20 V DC)
- Low power consumption (~1,6W / ~1,2W)



Model No	HA651-15	HAR651-15
Number of Output Ports	1	1
Number of RF/Power Ports (local power)	1	1
Number of Power Ports (DC)	1	1
Surge Withstand (6KV)	All RF Ports meet IEEE587 C62.41-1991 Cat A3 6KV/200A ring wave test standard (optionally Cat B3 6KV/3KA combination wave test)	
Rated Operating Temperature	- 40C - + 60C	- 40C - + 60C
Housing Dimensions (L*W*H) (mm)	62 x 51,5 x 16	86,2 x 42,6 x 20
Weight (g) +/- 5g	53	103,2
Power (mA)	95	160

Forward Path Specifications	HA651-15	HAR651-15
Reference Input Level (dBm)	-6	-6
Pass Band (MHz)	85 - 1000	85 - 1000
Gain (Input to Output) (dB)	15	15
Flatness (dB)	+/- 0,5	+/- 0,5
Return Loss (-dB)	18	18
Noise Figure (dB)	3	3
Chanel Loading	77 analog + 33 digital	77 analog + 33 digital
Rated Output Level (dBmV)	30	30
Composite Triple Beat (-dB)	73	73
Composite Second Order (-dB)	68	68
Cross Modulation (XMOD) (-dB)	75	75
Isolation (Input to DC Port) (-dB)	90	95
RFI Shielding (-dB)	130	130

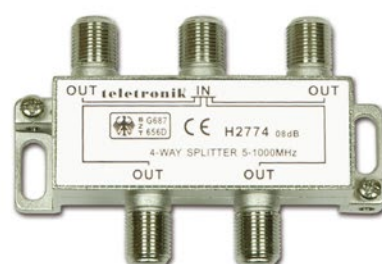
Reverse Path Specifications	HA651-15	HAR651-15
Reference Input level (dBm)	-6	-6
Pass Band (MHz)	5 - 65	5 - 65
Gain (output to Input) (dB)	-	10 +/- 1
Flatness (dB)	+/- 0.5	+/- 0.5
Return Loss (-db)	18	18
Noise Figure (dB)	-	6
Group Delay (1MHz span)	20 (5-42MHz)	20 (5-65MHz)
	5 (10-36MHz)	5 (10-36MHz)
Inter-Modulation (-dB)	105	105
Second Order (-dB)	110	110



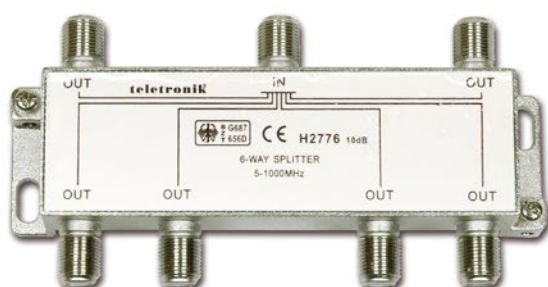
H-2772 2-WAY SPLITTER



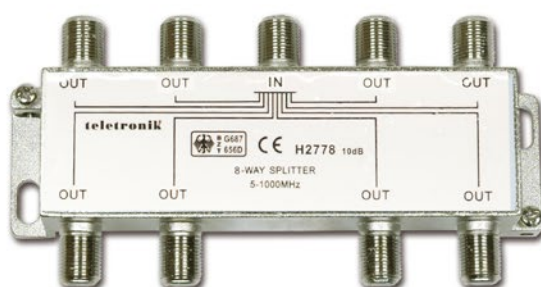
H-2773 3-WAY SPLITTER



H-2774 4-WAY SPLITTER



H-2776 6-WAY SPLITTER



H-2778 8-WAY SPLITTER

Parameter	Frequency Range (MHz)	H-2772	H-2773	H-2773U		H-2774	H-2776	H-2778
Insertion Loss (dB)	5-10 MHz	≤3.5	≤5.7	≤3.5	≤6.8	≤6.8	≤8.9	≤10.6
	11-65 MHz	≤3.6	≤5.6	≤3.6	≤7.0	≤7.0	≤8.8	≤11.0
	66-750 MHz	≤3.8	≤6.1	≤3.8	≤7.5	≤7.5	≤9.9	≤11.5
	750-1000 MHz	≤4.0	≤6.3	≤4.0	≤7.8	≤7.8	≤10.2	≤12.0
Mutual Isolation (dB)	5-10 MHz	≥25	≥25	≥25		≥25	≥25	≥25
	11-65 MHz	≥28	≥26	≥28		28	≥28	≥28
	66-750 MHz	≥28	≥26	≥28		≥28	≥28	≥28
	750-1000 MHz	≥25	≥25	≥25		≥25	≥25	≥25
Return Loss (dB)	5-10 MHz	≥18	≥18	≥18		≥18	≥18	≥18
	11-65 MHz	≥20	≥20	≥20		≥18	≥20	≥20
	66-750 MHz	≥20	≥20	≥20		≥20	≥20	≥20
	750-1000 MHz	≥18	≥18	≥18		≥18	≥18	≥18



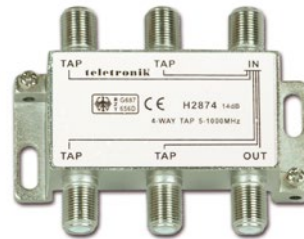
H-2871 1-WAY TAP



H-2872 2-WAY TAP

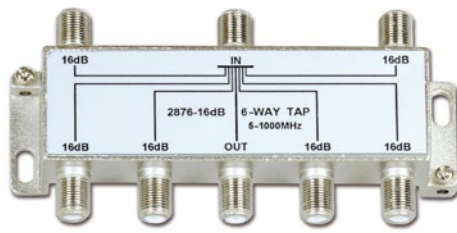
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H-2873 3-WAY TAP

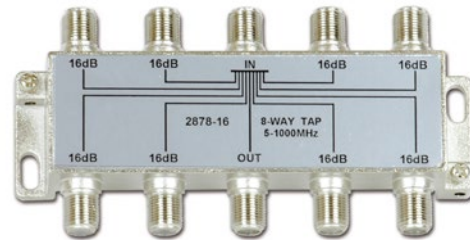


H-2874 4-WAY TAP

Parameter	Frequency Range (MHz)			10 dB	12 dB	14 dB	16 dB	18 dB	20 dB	22 dB	24 dB
Insertion Loss (dB)	Inaccuracy	5-10MHz	±0.5	9.5	11.5	13.5	15.5	17.5	19.5	22.0	23.5
		11-65MHz	±0.5	10.2	11.8	14.2	15.9	17.9	20.5	22.0	24.0
		66-750MHz	±1.0	10.5	12.2	14.5	16.4	18.0	20.5	22.4	24.4
		750-1000MHz	±1.0	10.5	12.5	14.5	16.5	18.5	20.5	22.4	24.5
Insertion Loss (dB)	5-10 MHz			≤3.7	≤3.7	≤2.6	≤1.7	≤1.3	≤1.0	≤1.0	≤0.9
	11-65 MHz			≤3.6	≤3.6	≤2.5	≤1.6	≤1.3	≤1.0	≤0.9	≤0.7
	66-750 MHz			≤3.9	≤3.9	≤2.7	≤1.7	≤1.6	≤1.2	≤1.2	≤0.8
	750-1000 MHz			≤4.0	≤4.0	≤3.1	≤2.5	≤1.8	≤1.6	≤1.2	≤1.0
Reverse Isolation (dB)	5-10 MHz			≥26	≥28	≥28	≥28	≥30	≥32	≥34	≥36
	11-65 MHz			≥28	≥30	≥30	≥30	≥32	≥32	≥32	≥32
	66-750 MHz			≥26	≥26	≥28	≥30	≥30	≥30	≥30	≥30
	750-1000 MHz			≥26	≥26	≥26	≥28	≥28	≥28	≥28	≥28
Mutual Isolation (dB)	5-10 MHz			≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
	11-65 MHz			≥26	≥26	≥26	≥26	≥26	≥26	≥26	≥26
	66-750 MHz			≥26	≥26	≥26	≥26	≥26	≥26	≥26	≥26
	750-1000 MHz			≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
Return Loss (dB)	5-10 MHz			≥18	≥18	≥18	≥18	≥18	≥18	≥18	≥18
	11-65 MHz			≥18	≥18	≥18	≥20	≥20	≥20	≥20	≥20
	66-750 MHz			≥18	≥18	≥18	≥20	≥20	≥20	≥20	≥20
	750-1000 MHz			≥18	≥18	≥18	≥18	≥18	≥18	≥18	≥18

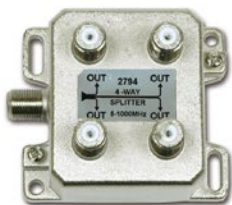


2876T 6-WAY TAP



2878T 8-WAY TAP

Model \ (MHz)	Tap Loss (dB)		Insertion Loss (dB)			Directional Loss (dB)			Mutual Isolation (dB)			Return Loss (dB)		
	5 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000
2876T-16	16±1.0	16±1.0	2.5	2.8	3.0	30	28	24	25	25	25	22	21	16
2876T-20	20±1.0	20±1.0	1.2	1.5	2.0	35	30	27	25	25	25	22	21	16
2876T-24	24±1.0	24±1.5	0.8	1.0	1.2	40	35	30	25	25	25	22	21	16
2876T-27	27±1.0	27±1.5	0.8	1.0	1.2	45	38	30	25	25	25	22	21	16
2876T-30	30±1.0	30±1.5	0.8	1.0	1.2	45	38	32	25	25	25	22	21	16
2876T-32	32±1.0	32±1.5	0.8	1.0	1.2	48	40	32	25	25	25	22	21	16
2878T-16	16±1.0	16±1.0	3.2	3.5	4.2	28	25	22	27	30	25	18	20	16
2878T-20	20±1.0	20±1.0	1.5	1.8	2.2	33	30	25	30	30	25	18	20	16
2878T-24	24±1.0	24±1.5	1.0	1.0	1.5	40	35	30	30	30	25	18	20	16
2878T-28	28±1.0	28±1.5	0.8	1.0	1.5	50	37	30	30	30	25	20	20	16
2878T-32	32±1.0	32±1.5	0.8	1.0	1.5	52	42	32	30	30	25	20	20	16



2794T 4-WAY SPLITTER



2796T 6-WAY SPLITTER



2798T 8-WAY SPLITTER



27916T 16-WAY SPLITTER

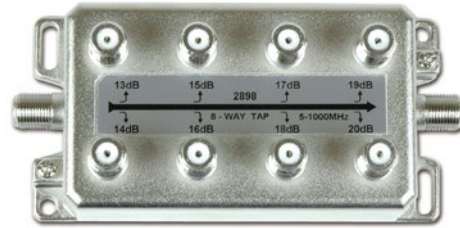


27912T 12-WAY SPLITTER

Model \ (MHz)	Insertion Loss (dB)				Mutual Isolation (dB)				Return Loss (dB)			
	5 - 40	40 - 470	470 - 860	860 - 1000	5 - 40	40 - 470	470 - 860	860 - 1000	5 - 40	40 - 470	470 - 860	860 - 1000
2794T	7.0	7.5	7.8	8.0	30	30	27	25	20	20	20	18
2796T	9.0	9.5	10.5	11.0	27	27	25	22	20	20	20	18
2798T	10.8	11.2	11.5	12.0	26	27	25	25	20	20	20	16
27912T	12.0	12.5	14.5	15.0	25	25	25	22	18	20	20	16
27916T	14.5	15.0	15.5	16.0	25	25	25	25	18	20	20	16



2894A 4-WAY VERTICAL TAP



2898A 8-WAY VERTICAL TAP

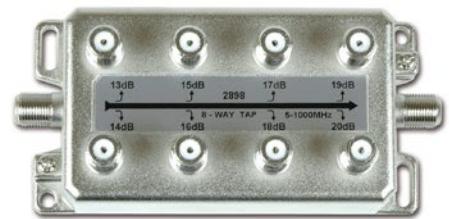
Model	(MHz)	Tap Loss (dB)		Insertion Loss (dB)			Directional Loss (dB)			Mutual Isolation (dB)			Return Loss (dB)		
		5 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000
2894A-11		11±1.0	11±1.5	3.3	3.5	4.0	23	25	22	22	25	23	12	18	12
2894A-14		14±1.0	14±1.5	2.6	3.0	3.3	30	27	25	22	25	23	12	16	14
2894A-17		17±1.0	17±1.5	1.3	1.6	2.2	30	30	26	22	26	23	12	16	14
2894A-20		20±1.0	20±1.5	1.0	1.2	1.4	30	28	26	22	25	23	12	16	14
2894A-23		23±1.0	23±1.5	1.0	1.0	1.4	35	30	28	22	25	23	12	16	14
2894A-26		26±1.0	26±1.5	1.0	1.0	1.4	40	35	30	22	25	23	12	17	14
2894A-29		29±1.2	29±1.5	1.0	1.0	1.4	40	35	30	22	25	23	12	17	14
2894A-32		32±1.2	32±1.5	1.0	1.0	1.4	40	35	30	22	25	23	12	17	14
2898A-14		14±1.0	14±1.5	3.5	3.5	4.2	30	30	25	25	30	25	21	22	16
2898A-17		17±1.0	17±1.5	2.5	2.7	3.8	30	30	25	28	30	25	21	22	16
2898A-20		20±1.0	20±1.5	1.5	2.0	2.3	30	30	28	25	27	25	22	22	16
2898A-23		23±1.0	23±1.5	0.8	1.0	1.8	38	35	28	25	27	25	22	22	16
2898A-26		26±1.0	26±1.5	0.8	1.0	1.5	45	38	30	25	27	25	22	22	16
2898A-29		29±1.2	29±1.5	0.8	1.0	1.5	45	38	30	25	27	25	22	22	16
2898A-32		32±1.2	32±1.5	0.8	1.0	1.5	50	40	32	25	27	25	22	22	16



2894T 4-WAY
VERTICAL MULTI TAP



2896T 6-WAY
VERTICAL MULTI TAP



2898T 8-WAY
VERTICAL MULTI TAP



28916T 16-WAY VERTICAL MULTI TAP

Model	(MHz)	Tap Loss Values (dB)	Tap Loss Tolerance (dB)		Insertion Loss (dB)			Directional Loss (dB)		Mutal isolation (dB)		Return Loss (dB)		
		5 - 1000	5 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000	5 - 470	470 - 1000	5 - 470	470 - 1000	5 - 40	40 - 470	470 - 1000
2894T		13,13.5, 14.5,15.5	±1.0	±1.0	4±1.0	4±1.0	4±1.0	30-26	24	40-36	32	20	22	17
2896T		13,13.5,14.5, 15.5,16.5,17.5	±1.0	±1.0	6±1.0	6±1.0	6±1.0	30-26	24	40-36	32	20	22	17
2898T		13,14,15,16, 17,18,19, 20	±1.0	±1.0	8±1.0	8±1.0	8±1.0	30-26	24	40-36	32	20	22	17
28916T		13,13.5,15,15.5, 16,16.5,18,19, 19.5,20,21.5,22.5, 23.5,24,25,25.5	±1.5	±1.5	-	-	-	-	-	38	30	20	22	16

2641 GROUND ISOLATOR



Item	Frequency (MHz)	2641
Insertion Loss (dB)	5~30	≤1.5
	30-550	≤1.2
	550~860	≤1.5
Return Loss (dB)	5~30	≥9
	30-550	≥15
	550~860	≥12
Impulse high voltage (2kVDC 3S 1mA)		No arc or through

H-2641 GROUND ISOLATOR

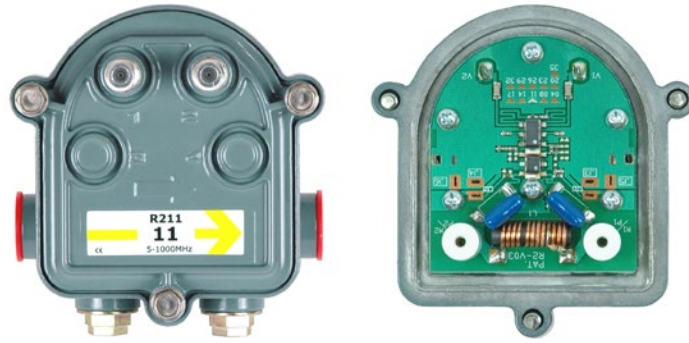


PARAMETER	SPECIFICATIONS
Impedance	75Ω
F Connector Type	Female to Female
Frequency Range	5 - 1000MHz
Insertion Loss (5-1000MHz)	0.3dB (typ) / 0.7 dB (max)
Return Loss (5-10MHz)	18dB (typ) / 16dB (min)
Return Loss (10-1000MHz)	20dB (typ) / 18dB (min)
Surge Protection	6kV (All Ports)
Dimensions	24 (Φ)×83(L)mm
Weight	49g

MMWO MULTIMEDIA SPLITTER



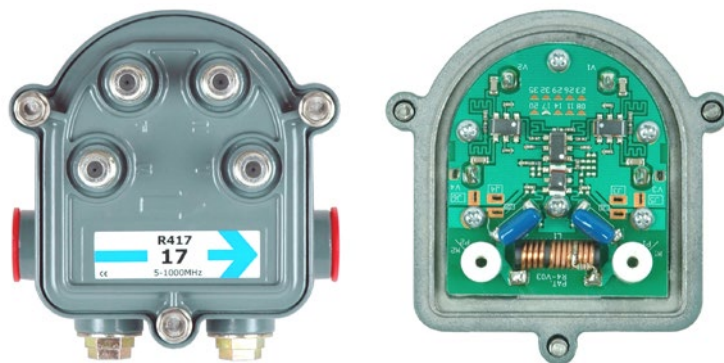
Item		Frequency (MHz)	MMWO
Insertion Loss	IN TV	87.5-862	3 ± 1.5
		5-60	≥ 43
	IN DATA	87.5-862	8 ± 2
		5-60	2 ± 1.5



R204-R229 2-WAY OUTDOOR TAP

Model No.		R204		R208		R211		R214		R217		R220		R223		R226		R229	
Test	Freq (MHz)	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP
Insertion Loss IN-OUT (dB)	5-10	-	-	3.2	2.4	1.9	1.2	1.4	0.7	1.5	0.7	0.9	0.3	0.9	0.3	0.9	0.3	0.9	0.3
	10-50	-	-	2.9	1.9	1.9	1.0	1.3	0.6	0.9	0.5	0.7	0.3	0.7	0.2	0.7	0.2	0.7	0.2
	50-100	-	-	2.9	1.9	1.9	0.9	1.3	0.5	0.9	0.5	0.7	0.3	0.7	0.2	0.7	0.2	0.7	0.2
	100-300	-	-	3.2	2.1	2.1	1.1	1.6	0.7	1.2	0.6	0.9	0.4	0.9	0.3	0.9	0.4	0.9	0.4
	300-400	-	-	3.7	2.6	2.1	1.5	1.6	1.1	1.4	1.0	1.4	0.7	1.4	0.7	1.3	0.8	1.3	0.8
	400-500	-	-	3.9	2.9	2.3	1.8	1.7	1.3	1.6	1.1	1.4	0.9	1.4	0.9	1.3	0.9	1.3	0.9
	500-600	-	-	4.2	3.1	2.5	1.9	1.8	1.3	1.6	1.1	1.4	0.9	1.4	0.8	1.3	0.9	1.4	0.9
	600-700	-	-	4.4	3.4	2.5	2.0	2.0	1.3	1.6	1.1	1.4	0.9	1.4	0.9	1.3	0.9	1.4	0.9
	700-800	-	-	4.7	3.6	2.7	2.2	2.1	1.4	1.6	1.1	1.4	0.9	1.5	0.9	1.5	1.0	1.5	1.0
	800-900	-	-	4.9	3.7	2.9	2.3	2.3	1.4	1.9	1.2	1.6	1.0	1.8	1.0	1.8	1.1	1.8	1.1
	900-1000	-	-	4.9	3.8	3.2	2.7	2.5	1.7	2.2	1.5	1.7	1.3	1.9	1.3	1.9	1.4	1.9	1.4
TAP Loss IN-TAP (dB)	5-500	4±1.2	3.3	8.8±1.7	8.6	11.5±1.7	11.9	14.5±1.7	14.7	17±1.7	17.1	20±1.7	20.5	23.5±1.7	24.1	26±1.7	26.6	29±1.7	29.4
	500-600	4±1.5	3.5	8.8±1.7	8.4	11.5±1.7	11.4	14.5±1.7	14.1	17±1.7	16.6	20±1.7	19.6	23.5±1.7	23.3	26±1.7	25.8	29±1.7	29.2
	600-900	4±1.9	3.8	8.8±1.7	8.3	11.5±1.7	11.1	14.5±1.7	14.0	17±1.7	16.8	20±1.7	19.2	23.5±1.7	22.9	26±1.7	25.7	29±1.7	29.6
	900-1000	4±2.2	4.0	8.8±2.0	8.9	11.5±2.0	11.6	14.5±2.0	14.6	17±2.0	16.6	20±2.0	19.1	23.5±2.0	22.7	26±2.0	25.7	29±2.0	29.6
Isolation OUT-TAP (dB)	5-10	-	-	18	24	18	27	20	32	20	30	25	38	25	35	30	37	30	39
	10-50	-	-	20	35	25	34	20	36	28	33	30	47	30	39	39	42	39	44
	50-300	-	-	25	31	25	30	25	35	23	31	23	40	23	38	23	40	25	41
	300-400	-	-	23	27	23	26	23	34	23	28	23	34	23	34	23	36	25	37
	400-500	-	-	22	29	22	25	22	36	23	28	23	33	23	34	23	35	25	37
	500-600	-	-	21	31	21	25	21	36	23	27	23	33	23	33	23	35	25	36
	600-900	-	-	19	36	19	23	20	35	23	27	23	32	23	31	23	33	20	34
	900-1000	-	-	18	32	18	22	20	31	20	26	20	30	20	29	20	30	20	31
Isolation TAP-TAP (dB)	5-10	19	36	17	34	19	29	19	39	19	31	19	30	19	31	19	30	19	31
	10-20	28	39	26	37	26	38	30	50	26	36	29	34	27	42	29	40	30	49
	20-400	20	36	20	28	20	32	20	40	20	32	20	33	20	32	20	36	20	44
	400-500	20	28	20	24	20	26	20	35	20	30	20	27	20	26	20	32	20	37
	500-600	20	27	20	24	20	25	20	33	20	31	20	26	20	25	20	30	20	37
	600-700	20	26	20	24	20	24	20	33	20	32	20	25	20	24	20	30	20	37
	700-900	20	25	20	24	20	25	20	32	20	30	20	24	20	25	20	32	20	35
	900-1000	18.5	24	18.5	24	18.5	24	18.5	28	18.5	26	18.5	22	18.5	24	18.5	29	18.5	29
Return Loss IN-OUT (dB)	5-10	17	31	17	28	17	24	17	33	17	30	17	34	17	29	17	29	17	31
	10-20	20	32	20	35	20	25	20	34	20	30	20	35	20	33	20	31	20	35
	20-400	20	31	16.5	27	16.5	24	16.5	27	16.5	26	16.5	27	16.5	27	16.5	28	16.5	30
	400-500	16.5	27	16.5	23	16.5	22	16.5	23	16.5	23	16.5	22	16.5	21	16.5	24	16.5	27
	500-600	16.5	27	16.5	27	16.5	22	16.5	23	16.5	24	16.5	22	16.5	22	16.5	24	16.5	27
	600-700	16.5	26	16.5	27	16.5	22	16.5	23	16.5	25	16.5	22	16.5	22	16.5	25	16.5	27
	700-900	16	24	16	24	16	23	16	26	16	26	16	25	16	25	16	26	16	27
	900-1000	16	22	16	22	16	24	16	22	16	22	16	21	16	23	16	21	16	22
Return Loss TAP (dB)	5-10	17	33	17	31	17	25	17	36	17	31	17	38	17	29	17	30	17	31
	10-20	20	34	20	33	20	27	20	38	20	30	20	34	20	32	20	29	20	34
	20-400	20	34	20	29	20	29	20	32	20	29	20	32	20	30	20	26	20	42
	400-500	20	28	20	24	20	25	20	29	20	27	20	27	20	25	20	35	20	42
	500-600	19	27	19	24	19	24	19	27	19	29	19	25	19	24	19	34	19	42
	600-700	17.5	26	17.5	25	17.5	24	17.5	26	17.5	32	17.5	24	17.5	25	17.5	36	17.5	39
	700-900	17.5	25	17.5	28	17.5	24	17.5	25	17.5	28	17.5	23	17.5	26	17.5	35	17.5	30
	900-1000	16	22	16	24	16	22	16	26	16	22	16	21	16	22	16	22	16	21

Dimensions: 90.2 x 104 x 72 mm; Operating Temperature: -40 °C ~ +60 °C; Weight: 274g; Impedance: 75 Ω



R408-R429 4-WAY OUTDOOR TAP

Model No.		R408		R411		R414		R417		R420		R423		R426		R429	
Test	Freq (MHz)	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP
Insertion Loss IN-OUT (dB)	5-10	-	-	3.2	2.3	2.1	1.5	1.4	0.7	1.4	0.7	0.9	0.3	0.9	0.3	0.8	0.3
	10-50	-	-	2.9	1.9	1.8	1.2	1.3	0.5	1.0	0.5	0.7	0.3	0.6	0.2	0.6	0.2
	50-100	-	-	2.9	1.8	1.8	1.1	1.5	0.5	1.1	0.4	0.7	0.3	0.7	0.2	0.7	0.2
	100-300	-	-	3.0	2.0	2.1	1.3	1.5	0.7	1.3	0.6	0.9	0.4	0.9	0.3	0.9	0.3
	300-400	-	-	3.7	2.5	2.3	1.7	1.8	1.0	1.4	0.9	1.4	0.8	1.1	0.7	1.2	0.7
	400-500	-	-	3.7	2.9	2.4	1.9	1.8	1.2	1.6	1.1	1.4	0.9	1.3	0.9	1.2	0.8
	500-600	-	-	4.2	3.1	2.5	2.0	1.9	1.2	1.6	1.1	1.4	0.9	1.3	0.8	1.2	0.8
	600-700	-	-	4.5	3.4	2.8	2.2	1.9	1.3	1.6	1.1	1.4	0.9	1.4	0.9	1.3	0.9
	700-800	-	-	4.7	3.7	3.0	2.4	2.1	1.4	1.7	1.2	1.5	0.9	1.4	0.9	1.4	0.9
	800-900	-	-	4.7	3.9	3.2	2.6	2.3	1.5	1.9	1.2	1.8	1.0	1.6	1.0	1.6	1.0
	900-1000	-	-	4.9	4.0	3.5	2.9	2.5	1.8	1.9	1.5	1.9	1.4	1.9	1.4	1.9	1.4
TAP Loss IN-TAP (dB)	5-500	8±1.2	7.3	12±1.2	11.8	14.5±1.2	14.3	17.5±1.2	18.2	20±1.2	20.1	23±1.7	23.6	26±1.7	26.1	28.5±1.7	29.1
	500-600	8±1.5	7.7	12±1.2	11.6	14.5±1.2	14.3	17.5±1.2	17.9	20±1.2	19.8	23±1.7	22.9	26±1.7	25.8	28.5±1.7	29.3
	600-900	8±1.9	8.0	12±1.7	11.5	14.5±1.7	13.8	17.5±1.7	17.6	20±1.7	19.4	23±1.7	22.6	26±1.7	25.4	28.5±1.7	29.2
	900-1000	8±2.2	8.4	12±2.0	11.7	14.5±2.0	13.1	17.5±2.0	17.9	20±2.0	19.3	23±2.0	22.5	26±2.0	24.9	28.5±2.0	27.9
Isolation OUT-TAP (dB)	5-10	-	-	18	32	20	27	23	37	25	31	29	36	32	38	32	41
	10-50	-	-	25	34	20	34	26	44	25	34	37	41	38	44	38	46
	50-300	-	-	25	32	23	33	23	39	26	33	33	38	35	41	35	43
	300-400	-	-	23	33	21	30	23	35	26	31	32	34	34	37	36	39
	400-500	-	-	22	39	20	29	21	35	26	30	32	33	33	36	35	38
	500-600	-	-	21	41	22	29	20	34	25	30	31	33	30	35	33	37
	600-900	-	-	20	36	19	29	19	31	24	29	26	31	26	32	25	34
	900-1000	-	-	18	28	18	27	18	28	23	28	24	29	25	29	25	31
	5-10	17	30	17	24	19	26	19	32	19	28	19	26	19	30	19	31
Isolation TAP-TAP (dB)	10-20	22	34	22	29	22	30	22	46	22	35	22	31	22	38	22	39
	20-400	24	36	24	28	24	29	24	39	24	36	24	38	24	40	24	44
	400-500	24	30	24	30	24	30	24	32	24	30	24	31	24	37	24	37
	500-600	22	27	22	34	22	34	22	28	22	30	22	28	22	36	22	36
	600-700	20	24	20	36	20	35	20	26	20	30	20	26	20	34	20	35
	700-900	20	23	20	33	20	30	20	27	20	26	20	25	20	28	20	31
	900-1000	18.5	22	18.5	29	18.5	28	18.5	27	18.5	23	18.5	25	18.5	23	18.5	26
	5-10	17	31	17	27	17	25	17	31.0	17	30	17	32	17	32	17	33
Return Loss IN-OUT (dB)	10-20	20	38	20	28	20	24	20	34.9	20	33	20	36	20	35	20	35
	20-400	20	32	16.5	27	16.5	24	16.5	26.6	16.5	28	16.5	28	16.5	28	16.5	29
	400-500	20	31	16.5	23	16.5	22	16.5	23.8	16.5	23	16.5	23	16.5	23	16.5	23
	500-600	20	30	16.5	26	16.5	22	16.5	24.6	16.5	23	16.5	23	16.5	23	16.5	24
	600-700	20	31	16.5	28	16.5	23	16.5	24.1	16.5	23	16.5	23	16.5	24	16.5	25
	700-900	16.5	27	16	25	16	22	16	24.0	16	24	16	26	16	27	16	26
	900-1000	16	24	16	22	16	20	16	19.8	16	20	16	22	16	21	16	23
	5-10	17	33	17	29	17	30	17	33	17	29	17	33	17	37	17	37
Return Loss TAP (dB)	10-20	20	41	20	25	20	27	20	41	20	36	20	37	20	34	20	33
	20-400	20	33	20	27	20	29	20	33	20	34	20	37	20	35	20	37
	400-500	19	31	19	25	19	25	19	33	19	29	19	31	19	30	19	32
	500-600	17.5	31	17.5	28	17.5	25	17.5	33	17.5	28	17.5	28	17.5	29	17.5	32
	600-700	17.5	31	17.5	31	17.5	27	17.5	30	17.5	27	17.5	25	17.5	30	17.5	32
	700-900	16.5	29	16.5	27	16.5	26	16.5	23	16.5	23	16.5	24	16.5	31	16.5	32
	900-1000	16	24	16	24	16	22	16	19	16	19	16	24	16	23	16	26

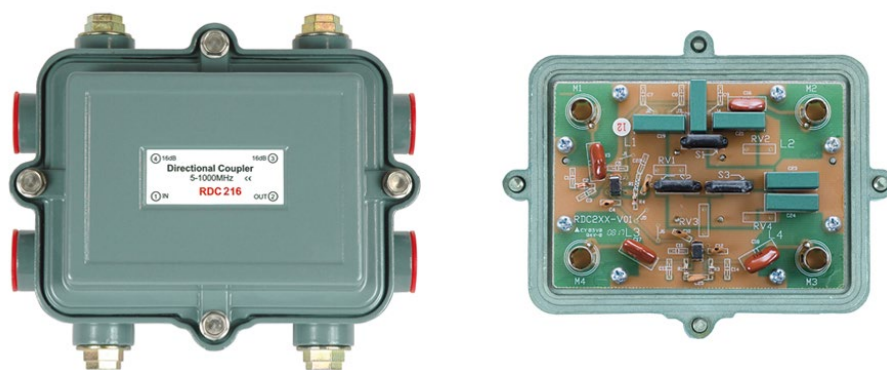
Dimensions: 90.2 x 104 x 72 mm; Operating Temperature: -40 C° ~ +60 C°; Weight: 288g; Impedance: 75 Ω



R811-R829 8-WAY OUTDOOR TAP

Model No.		R811		R814		R817		R820		R823		R826		R829	
Test	Freq (MHz)	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP
Insertion Loss IN-OUT (dB)	5-10	-	-	3.7	2.5	2.1	1.5	2.0	1.2	1.6	0.7	1.1	0.3	1.0	0.4
	10-50	-	-	3.7	1.9	1.9	1.2	1.5	0.8	1.1	0.5	1.1	0.3	0.8	0.3
	50-100	-	-	2.7	1.9	1.7	1.1	1.4	0.8	1.1	0.5	1.1	0.3	0.9	0.3
	100-300	-	-	2.9	2.1	1.9	1.2	1.5	0.9	1.2	0.6	1.1	0.4	1.1	0.4
	300-400	-	-	3.4	2.5	2.3	1.6	1.7	1.2	1.5	0.9	1.2	0.7	1.3	0.7
	400-500	-	-	3.7	2.9	2.4	1.9	1.8	1.5	1.5	1.1	1.3	0.9	1.2	0.9
	500-600	-	-	4.0	3.1	2.5	1.9	1.9	1.5	1.5	1.1	1.5	0.8	1.3	0.9
	600-700	-	-	4.4	3.4	2.7	2.0	2.0	1.5	1.5	1.0	1.5	0.8	1.3	0.8
	700-800	-	-	4.8	3.7	2.9	2.1	2.2	1.6	1.5	1.1	1.5	0.9	1.5	0.9
	800-900	-	-	4.9	4.0	3.2	2.3	2.3	1.8	1.6	1.3	1.6	1.0	1.6	1.0
	900-1000	-	-	4.9	4.4	3.4	2.6	2.7	2.1	1.9	1.5	1.9	1.3	1.9	1.3
TAP Loss IN-TAP (dB)	5-500	11±1.2	10.4	14.5±1.7	15.2	17.5±1.7	17.9	20±1.7	19.8	23±1.7	23.5	26.5±1.7	27.2	29±1.7	29.8
	500-600	11±1.5	10.9	14.5±1.7	14.9	17.5±1.7	17.7	20±1.7	19.8	23±1.7	23.6	26.5±1.7	26.9	29±1.7	29.6
	600-900	11±2.0	11.3	14.5±1.7	15.0	17.5±1.7	17.6	20±1.7	19.6	23±1.7	23.4	26.5±1.7	26.4	29±1.7	29.1
	900-1000	11±2.5	12.1	14.5±2.5	15.8	18±2.0	18.4	20±2.0	20.0	23±2.0	23.5	26.5±2.0	26.5	29±2.0	29.0
Isolation OUT-TAP (dB)	5-10	-	-	17	31	19	28	25	34	27	33	31	39	31	36
	10-50	-	-	24	51	19	36	25	43	32	36	34	42	34	38
	50-300	-	-	24	43	22	36	22	41	32	35	29	39	32	37
	300-400	-	-	24	40	20	33	22	39	32	34	27	36	32	36
	400-500	-	-	22	42	19	33	20	39	32	34	27	35	29	36
	500-600	-	-	21	43	19	32	19	37	31	34	27	34	29	35
	600-900	-	-	19	39	18	31	18	34	29	33	24	32	25	34
	900-1000	-	-	17	36	17	29	17	31	27	32	23	30	24	33
Isolation TAP-TAP (dB)	5-10	19	31	19	34	19	25	19	26	19	26	19	32	19	38
	10-20	22	41	22	42	22	31	22	33	22	33	22	42	22	31
	20-400	22	40	22	35	22	29	22	35	22	35	22	33	22	34
	400-500	22	31	22	31	22	31	22	41	22	29	22	28	22	27
	500-600	19	31	19	27	19	30	19	38	19	31	19	29	19	28
	600-700	17	31	17	25	17	28	17	34	17	33	17	33	17	31
	700-900	17	30	17	23	17	28	17	32	17	31	17	28	17	31
	900-1000	17	26	17	22	17	23	17	31	17	27	17	24	17	25
Return Loss IN-OUT (dB)	5-10	17	34	17	30	17	24	17	29	17	31	17	34	17	30
	10-20	19	33	19	30	19	23	19	33	19	31	19	34	19	34
	20-400	16.5	33	16.5	29	16.5	24	16.5	30	16.5	29	16.5	31	16.5	30
	400-500	16.5	26	16.5	25	16.5	22	16.5	30	16.5	22	16.5	22	16.5	23
	500-600	16.5	24	16.5	26	16.5	22	16.5	29	16.5	23	16.5	21	16.5	22
	600-700	16.5	23	16.5	26	16.5	22	16.5	28	16.5	26	16.5	23	16.5	22
	700-900	16	22	16	22	16	23	16	26	16	24	16	24	16	24
	900-1000	16	21	16	23	16	23	16	25	16	20	16	21	16	22
Return Loss TAP (dB)	5-10	17	35	17	33	17	28	17	34	17	32	17	35	17	29
	10-20	20	33	20	31	20	24	20	35	20	33	20	33	20	32
	20-400	20	33	20	31	20	27	20	30	20	32	20	31	20	30
	400-500	16.5	26	16.5	27	16.5	24	16.5	25	16.5	23	16.5	22	16.5	24
	500-600	16.5	25	16.5	26	16.5	23	16.5	25	16.5	21	16.5	21	16.5	21
	600-700	16.5	23	16.5	23	16.5	21	16.5	23	16.5	21	16.5	21	16.5	21
	700-900	16	22	16	21	16	21	16	22	16	23	16	24	16	23
	900-1000	16	21	16	19	16	20	16	20	16	20	16	22	16	21

Dimensions: 134.6 x 112.3 x 69 mm; Operating Temperature: -40 C° ~ +60 C°; Weight: 454g; Impedance: 75 Ω



RDC208 - RDC216 - RDC216
2-WAY DIRECTIONAL COUPLER

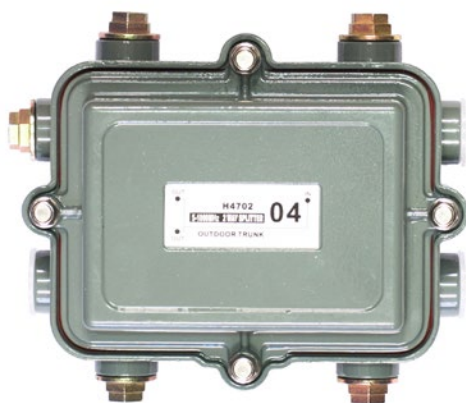
Model No.		RDC208		RDC212		RDC216	
Test	Freq (MHz)	QA	TYP	QA	TYP	QA	TYP
Insertion Loss IN-OUT (dB)	5-15	2.7	2.2	1.8	1.4	1.4	1
	15-65	2.7	2.2	1.7	1.3	1.3	0.9
	65-450	2.9	2.5	2	1.5	1.4	1
	450-750	3.2	2.8	2.4	2	2.1	1.8
	750-1000	3.7	3.2	2.9	2.5	2.2	1.8
TAP Loss IN-TAP (dB)	5-15 (+/- 1.5)	9.5	9.5	12.5	12.5	16	16
	15-1000 (+/- 1.25)	10	10	12.5	12.5	15.5	15.5
Isolation Loss OUT-TAP (dB)	5-15	21	23	22	23	23	23
	15-65	27	35	26	35	28	35
	65-450	19	25	19	25	19	25
	450-750	18	24	19	24	19	24
	750-1000	18	24	18	24	19	24
Return Loss ALL (dB)	5-15	16	18	17	19	17	19
	15-65	17	20	17	20	17	20
	65-450	17	22	16	22	17	22
	450-750	16	22	16	22	16	22
	750-1000	16	22	16	22	16	22
Dimensions: 136.7 x 123.7 x 72 mm; Operating Temperature: -40 C° ~ +60 C°; Weight: 600g; Impedance: 75 Ω							

[illegible]

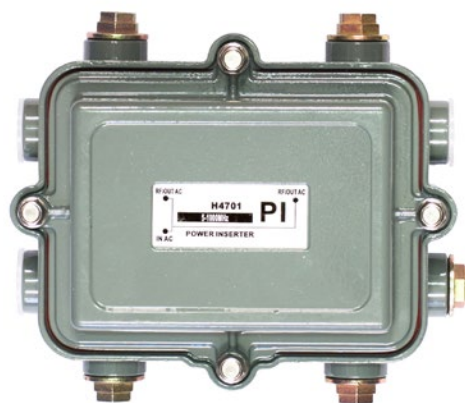


H-4718 8-WAY OUTDOOR TAP

Tap Value	Frequency (MHz)	11 dB	14 dB	17 dB	20 dB	23 dB	26 dB	29 dB	32 dB
Insertion Loss IN-OUT (dB Max)	5-10	-	3.2	1.6	1.0	0.6	0.5	0.5	0.4
	10-300	-	3.0	1.7	1.0	0.7	0.7	0.6	0.5
	300-400	-	3.2	1.9	1.3	0.9	0.9	0.8	0.5
	400-450	-	3.5	2.0	1.4	1.1	1.0	0.9	0.7
	450-600	-	3.7	2.2	1.5	1.2	1.1	1.0	0.8
	600-750	-	4.1	2.6	1.8	1.5	1.4	1.3	1.2
	750-900	-	4.5	3.0	2.2	1.7	1.7	1.5	1.4
	900-1000	-	4.9	3.5	2.5	2.0	2.0	1.8	1.7
Tap Loss IN-TO-TAP (± 1.5 dB)	5-10	11.0	15.0	17.0	20.0	23.0	26.0	29.0	31.5
	10-750	11.0	15.0	17.5	20.5	23.5	26.0	29.0	32.0
	750-900	11.5	15.0	17.5	20.5	23.5	26.5	29.0	32.0
	900-1000	11.5	15.5	17.5	20.5	23.5	26.5	29.0	32.0
Isolation TAP-TO-TAP (dB Min)	5-10	20	20	20	20	20	20	20	20
	10-600	24	24	24	24	24	24	24	24
	600-750	23	23	23	23	23	23	23	23
	750-1000	20	18	20	20	20	20	20	20
Isolation OUT-TO-TAP (dB Min)	5-10	-	19	19	21	27	29	31	33
	10-600	-	25	25	28	37	38	39	46
	600-750	-	23	23	26	30	33	35	44
	750-900	-	21	21	24	28	31	32	42
	900-1000	-	20	20	22	25	28	30	34
Return Loss IN, OUT & TAP (dB Min)	5-10	16	16	16	16	16	16	16	16
	10-400	18	18	18	18	18	18	18	18
	400-450	18	18	18	18	18	18	18	18
	450-750	17	17	17	17	17	17	17	17
	750-1000	16	16	16	16	16	16	16	16



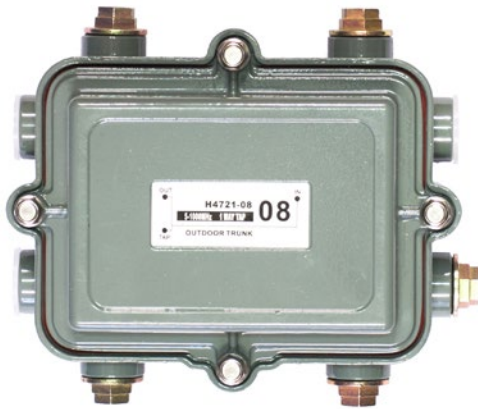
H-4702 - H-4703 LINE SPLITTER



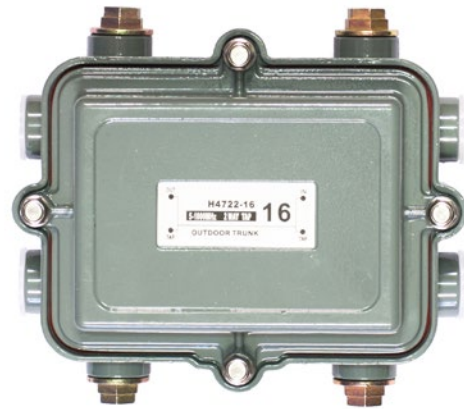
H-4701 POWER INSERTER

MODEL		LINE SPLITTER					
		H-4702	H-4703				
Parameter	Frequency (MHz)	2 Way (Balanced)	3 Way (Balanced)		3 Way (Unbalanced)		
					In-Low	In-High	
Insertion Loss IN-OUT (dB Max)	5-10	4.2	6.5		7.5	4.0	
	10-300	4.1	5.9		7.4	3.9	
	300-400	4.2	5.9		7.6	4.1	
	400-450	4.3	6.0		7.9	4.1	
	450-600	4.5	6.4		7.9	4.8	
	600-750	4.9	7.2		8.2	4.9	
	750-900	5.2	7.8		8.4	5.2	
	900-1000	5.3	7.9		8.7	5.4	
		Port 2 - 3	Port 2 - 3	Port 2 - 4	Port 3 - 4	Low-Low	Low-High
Isolation OUT-TO-OUT (dB Min)	5-10	22	23	25	19	23	25
	10-500	25	25	25	22	25	28
	500-600	25	25	28	22	25	28
	600-750	25	23	25	22	23	25
	750-900	23	21	23	20	21	23
	900-1000	21	19	20	19	20	21
Return Loss IN, OUT (dB Min)	5-10	17	17		17		
	10-30	18	18		18		
	30-400	19	18		18		
	400-1000	17	17		17		

MODEL		POWER INSERTER	
		H-4701	
Parameter	Frequency (MHz)		
Insertion Loss IN-OUT (dB Max)	5-10	0.6	
	10-300	0.6	
	300-400	0.7	
	400-450	0.7	
	450-600	0.8	
	600-750	1.0	
	750-900	1.1	
	900-1000	1.2	
Insertion Loss IN-OUT-AC (dB Min)	5-10	65	
	10-600	61	
	600-750	58	
	750-900	53	
	900-1000	52	
Return Loss IN, OUT & TAP (dB Min)	5-10	17	
	10-50	18	
	50-400	20	
	400-1000	17	



H-4721 1-WAY DIRECTIONAL COUPLER



H-4722 2-WAY OUTDOOR TAP

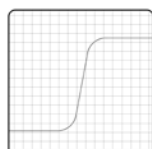
MODEL		DIRECTIONAL COUPLER				
		H-4721				
Parameter	Frequency (MHz)	Tap 8 (dB)	Tap 12 (dB)	Tap 12 (dB)	Tap 16 (dB)	Tap 20 (dB)
Insertion Loss IN-OUT (dB Max)	5-10	1.6	1.1	1.1	1.1	1.1
	10-300	1.7	1.2	1.2	1.1	1.1
	300-400	1.8	1.3	1.3	1.2	1.2
	400-450	1.9	1.4	1.4	1.3	1.3
	450-600	2.0	1.6	1.6	1.5	1.5
	600-750	2.4	2.0	2.0	1.7	1.7
	750-900	3.0	2.4	2.4	2.2	2.2
	900-1000	3.5	2.7	2.7	2.5	2.5
Tap Loss IN-TO-TAP (±1.5dB)	5-600	8.5	14	12.0	16.0	20
	600-1000	8.5	14.5	12.5	16.0	20.5
Isolation OUT-TO-TAP (dB Min)	5-10	18	20	20	22	22
	10-600	25	26	26	28	28
	600-750	24	26	26	28	28
	750-900	21	24	24	25	25
	900-1000	19	22	22	23	23
Return Loss IN, OUT & TAP (dB Min)	5-10	16	16	16	16	16
	10-30	18	18	18	18	18
	30-400	18	18	18	18	18
	400-1000	16	16	16	16	16

MODEL		DIRECTIONAL COUPLER				
		H-4722				
Parameter	Frequency (MHz)	Tap 8 (dB)	Tap 12 (dB)	Tap 14 (dB)	Tap 16 (dB)	Tap 20 (dB)
Insertion Loss IN-OUT (dB Max)	5-10	4.0	1.6	1.2	1.1	1.1
	10-300	3.9	1.7	1.3	1.2	1.1
	300-400	4.1	1.8	1.4	1.3	1.2
	400-450	4.1	1.9	1.5	1.4	1.3
	450-600	4.8	2.0	1.7	1.6	1.5
	600-750	4.9	2.4	2.1	2.0	1.7
	750-900	5.2	3.0	2.5	2.4	2.2
	900-1000	5.4	3.5	3.0	2.7	2.5
Tap Loss IN-TO-TAP (±1.5dB)	5-600	8.0	12.5	14.0	16.0	20.0
	600-1000	8.0	12.5	14.5	16.5	20.5
Isolation OUT-TO-TAP (dB Min)	5-10	18	18	20	20	20
	10-600	25	25	26	26	26
	600-750	24	24	26	26	26
	750-900	21	21	24	24	24
	900-1000	19	19	22	22	22
Return Loss IN, OUT & TAP (dB Min)	5-10	16	16	16	16	16
	10-30	18	18	18	18	18
	30-400	18	18	18	18	18
	400-1000	16	16	16	16	16

Teletronik filters are produced with SMD parts for reduced signal path and increased reliability and are hand tuned separately to optimum. Our filters use a patent pending shielding inside the filter tube, which outperforms common EMI shielding used in other filters.

teletronik has the flexibility to produce any type of filter that suits your needs. If your CATV system requires a special type of filter that is commonly not in production feel free to contact us.

HIGH PASS FILTERS



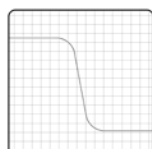
High pass filters pass only higher frequencies / channels and reject anything below the cut-off frequency. HPF filters are mostly used to attenuate the CATV return path band (5-54MHz or 5-85MHz).



model	pass band (MHz)	model	pass band (MHz)
HPF-50	50 - 1000	HPF-240	240 - 1000
HPF-54	54 - 1000	HPF-380	380 - 1000
HPF-65	65 - 1000	HPF-470	470 - 1000
HPF-70	70 - 1000	HPF-500	500 - 1000
HPF-85	85 - 1000	HPF-550	550 - 1000
HPF-174	174 - 1000		

model	pass band (MHz)	model	pass band (MHz)
HPF-47M	47 - 1000	HPF-100M	100 - 1000
HPF-50M	50 - 1000	HPF-120M	120 - 1000
HPF-54M	54 - 1000	HPF-174M	174 - 1000
HPF-65M	65 - 1000	HPF-240M	240 - 1000
HPF-70M	70 - 1000	HPF-380M	380 - 1000
HPF-85 A	85 - 1000	HPF-450M	450 - 1000
HPF 85 MH	85 - 1000	HPF-470M	470 - 1000
HPF-90M	90 - 1000	HPF-576M	576 - 1000

LOW PASS FILTERS



Low pass filters pass lower frequencies / channels and reject the higher ones. Low Pass filters are frequently used to filter out signals outside the CATV band or to eliminate a whole range of higher channels.

model	pass band (MHz)	model	pass band (MHz)
LPF-108	5 - 108	LPF-358	5 - 358
LPF-132	5 - 132	LPF-430	5 - 430
LPF-145	5 - 145	LPF-447	5 - 447
LPF-202	5 - 202	LPF-450	5 - 450
LPF-216	5 - 216	LPF-486	5 - 486
LPF-222	5 - 222	LPF-493	5 - 493
LPF-230	5 - 230	LPF-550	5 - 550
LPF-238	5 - 238	LPF-787 (LTE filter)	5 - 787
LPF-300	5 - 300	LPF-862	5 - 862

PSS SERIES

Description

- Surge protection circuit
- Built in delay circuit to protect the device from inrush current by power on
- Auto reset function
- Indicator light
- Scaleable from 6A to 15 A



Model	PSS-660	PSS-960	PSS-1260	PSS-1560
Capacity	360VA	540VA	720VA	900VA
Input	220V $\pm$ 20%			
Frequency	50Hz			
Output	60V $\pm$ 2% at full load			
Output current	6A	9A	12A	15A
Output Waveform	Quasi-square wave			
Protection	Over load current limit, short circuit			
Environment	-40°C ~ +55°C			
Humidity	0-50%			

For in depth information please visit our webpage
Für mehr Information bitte besuchen Sie unsere Webseite

teletronik[®] AG

Bahnhofstrasse 10.
CH, 6302 Zug
Switzerland

teletronik@teletronik.com
www.teletronik.com

Your local distributor: