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Selection guide
Wideband Hybrid Amplifier Modules for CATV

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Philips
Semiconductors

PHILIPS

Wideband Hybrid Amplifier Modules for CATV

Selection guide

TYPE NUMBER	POWER GAIN (dB)	SLOPE CABLE EQUIVALENT (SL) (dB)	FLATNESS (dB) MAX.	RETURN LOSS (INPUT/OUTPUT) (dB) MIN. notes: Table 2	COMPOSITE TRIPLE BEAT (dB) MAX. notes: Table 3
Reverse Amplifier: 5 to 75 MHz Range					
	@10 MHz				**4 chs**
BGY68	30 ± 0.8	–0.2 to +0.5	±0.2	20	–68(3.1)
Reverse Amplifier: 5 to 120 MHz Range					
	@10 MHz				**14 chs**
BGY66B	25 ± 0.5	–0.2 to +0.5	±0.2	20	–66(3.2)
Reverse Amplifier: 5 to 200 MHz Range					
	@10 MHz				**22 chs(3.3)**
BGY61	13.0 ± 0.5	–0.2 to +0.5	±0.2	20	–68
BGY65	18.5 ± 0.5	–0.2 to +0.5	±0.2	20	–68
BGY67	22.0 ± 0.5	–0.2 to +0.5	±0.2	20	–67
BGY67A	24.0 ± 0.5	–0.2 to +0.5	±0.2	20	–67
Forward Amplifier: 40 to 450 MHz Range					
BGY84, BGY85, BGY84A, BGY85A, BGY86, BGY87, BGY87B, BGY88, BGY89; for more information see corresponding data sheets in this handbook.					

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Selection guide

TYPE NUMBER	CROSS MODULATION (dB) MAX. notes: Table 4	COMPOSITE 2nd ORDER BEAT (dB) MAX. notes: Table 5	2nd ORDER BEAT (dB) MAX. notes: Table 6	OUTPUT VOLTAGE (dBmV) MIN. notes: Table 7		NOISE FIGURE (dB) MAX.	TOTAL DC CURRENT CONSUMPTION (mA) MAX.
Reverse Amplifier: 5 to 75 MHz Range							
	4 chs					**@75 MHz**	
BGY68	–60(4.1)	–	–70(6.1)	–		5.0	135
Reverse Amplifier: 5 to 120 MHz Range							
	14 chs					**@120 MHz**	
BGY66B	–54(4.2)	–	–70(6.2)	60.0(7.1)		5.0	135
Reverse Amplifier: 5 to 200 MHz Range							
	22 chs(4.3)		**(6.3)**	**(7.2)**	**(7.3)**	**@200 MHz**	
BGY61	–61	–	–72	67.0	64.0	7.0	230
BGY65	–61	–	–72	67.0	64.0	5.5	230
BGY67	–60	–	–67	67.0	64.0	5.5	230
BGY67A	–59	–	–67	67.0	64.0	5.5	230
Forward Amplifier: 40 to 450 MHz Range							
BGY84, BGY85, BGY84A, BGY85A, BGY86, BGY87, BGY87B, BGY88, BGY89; for more information see corresponding data sheets in this handbook.							

TYPE NUMBER	POWER GAIN (dB)		SLOPE CABLE EQUIVALENT (SL) (dB)	FLATNESS (dB) MAX.	RETURN LOSS (INPUT/OUTPUT) (dB) MIN. notes: Table 2	COMPOSITE TRIPLE BEAT (dB) MAX. notes: Table 3
Power Doublers						
BGD104, BGD108; for more information see corresponding data sheets in this handbook.						
Forward Amplifier: 40 to 550 MHz Range						
	@50 MHz	**@550 MHz**			**(2.2)**	**77 chs(3.4)**
BGY580	12.5 ± 0.5	12.5 to 14.5	0.5 to 2.0	±0.2	18	–52
BGY583	14.0 ± 0.5	>14.5	0.2 to 1.5	±0.2	18	–59
BGY585	17.0 ± 0.5	17.6 to 19.0	0.5 to 2.0	±0.2	18	–59
BGY585A	18.2 ± 0.5	18.8 to 20.0	0.5 to 2.0	±0.2	18	–59
BGY586	22.0 ± 0.5	22.0 to 24.0	0.2 to 1.5	±0.2	18	–53
BGY587	22.0 ± 0.5	22.0 to 24.0	0.2 to 1.5	±0.2	18	–57
BGY587B	27.0 ± 0.8	>27.5	0.5 to 2.5	±0.4	18	–57
BGY588	34.5 ± 1.0	35.0 to 37.0	0 to 2.5	±0.4	18	–57
Power Doublers						
BGD502	18.5 ± 0.5	18.8 to 20.8	0.2 to 2.2	±0.3	18	–65
BGD504	20.0 ± 0.5	20.2 to 22.2	0.2 to 2.2	±0.3	18	–64
BGD506	22.0 ± 0.5	>22.1	0 to 2.0	±0.3	18	–62
BGD508	36.0 ± 1.0	>36.5	0.2 to 2.2	±0.4	18	–62
Forward Amplifier: 40 to 600 MHz Range						
	@50 MHz	**@600 MHz**			**(2.2)**	**85 chs(3.5)**
BGY683	14.0 ± 0.5	>14.5	0.2 to 1.7	±0.2	18	–55
BGY685A	18.2 ± 0.5	>19.0	0.5 to 2.2	±0.2	18	–55
BGY685AD	18.5 ± 0.5	>19.0	0.2 to 2.2	±0.3	18	–62
BGY685AL	18.5 ± 0.5	>18.5	0.5 to 2.0	±0.3	18	–56
BGY687	21.5 ± 0.5	>22.0	0.8 to 2.2	±0.2	18/16	–54
BGY687B	27.0 ± 0.8	>27.8	0.8 to 2.8	±0.4	18	–53

TYPE NUMBER	CROSS MODULATION (dB) MAX. notes: Table 4	COMPOSITE 2nd ORDER BEAT (dB) MAX. notes: Table 5	2nd ORDER BEAT (dB) MAX. notes: Table 6	OUTPUT VOLTAGE (dBmV) MIN. notes: Table 7	NOISE FIGURE (dB) MAX.	TOTAL DC CURRENT CONSUMPTION (mA) MAX.
Power Doublers						
BGD104, BGD108; for more information see corresponding data sheets in this handbook.						
Forward Amplifier: 40 to 550 MHz Range						
	77 chs(4.4)	**77 chs(5.1)**	**(6.5)**	**(7.4)**	**@550 MHz**	
BGY580	–59	–56	–70	59.0	8.5	200
BGY583	–61	–59	–72	61.5	8.5	240
BGY585	–62	–59	–70	61.0	8.0	240
BGY585A	–62	–59	–72	61.5	8.0	240
BGY586	–55	–50	–62	58.5	6.5	200
BGY587	–58	–54	–66	61.0	7.0	240
BGY587B	–60	–57	–68	61.0	6.5	340
BGY588	–59	–57	–68	61.0	6.5	340
Power Doublers						
BGD502	–68	–62	–72	64.0	8.0	435
BGD504	–67	–60	–70	63.5	8.0	435
BGD506	–63	–55	–66	62.5	7.0	435
BGD508	–65	–60	–70	63.0	7.5	625
Forward Amplifier: 40 to 600 MHz Range						
	85 chs(4.4)	**85 chs(5.2)**	**(6.6)**	**(7.5)**	**@600 MHz**	
BGY683	–59	–57	–68	58.0	9.0	240
BGY685A	–60	–56	–70	60.0	8.5	240
BGY685AD	–60	–60	–70	62.0	6.0	250
BGY685AL	–55	–56	–70	60.0	5.0	250
BGY687	–54	–52	–66	58.0	6.5	240
BGY687B	–58	–54	–66	60.0	7.0	340

TYPE NUMBER	POWER GAIN (dB)		SLOPE CABLE EQUIVALENT (SL) (dB)	FLATNESS (dB) MAX.	RETURN LOSS (INPUT/OUTPUT) (dB) MIN. notes: Table 2	COMPOSITE TRIPLE BEAT (dB) MAX. notes: Table 3
Power Doublers						
BGD602	18.5 ± 0.5	>19.0	0.2 to 2.2	±0.3	18	–62
BGD602D	18.0 ± 0.5	>18.5	0.2 to 2.2	±0.3	18	–68
Forward Amplifier: 40 to 750 MHz Range						
	@50 MHz	**@750 MHz**			**(2.3)**	**110 chs(3.6)**
BGY785A	18.5 ± 0.5	>18.5	0 to 2.0	±0.3	20	–53
BGY785AD	18.5 ± 0.5	>18.5	0.2 to 2.0	±0.5	20	–58
BGY785AD/8M(1.7)	18.5 ± 0.5	–	0.2 to 2.0	±0.5	20	–58
BGY787	21.5 ± 0.5	>22.0	0 to 1.5	±0.5	20	–53
BGE788	34.0 ± 0.5	>34	0.5 to 2.5	±0.5	20	–49
Power Doublers						
BGD702/702MI(1.4)	18.5 ± 0.5	>18.5	0 to 1.5	±0.5	20(2.4)	–58
BGD702D	18.5 ± 0.5	>20.0	2.0 to 4.0	±0.5	20(2.3)	–62
BGD704	20.0 ± 0.5	>20.0	0 to 2.0	±0.5	20(2.4)	–57
Forward Amplifier: 40 to 860 MHz Range						
	@50 MHz	**@860 MHz**			**(2.3)**	**49 chs(3.7)**
BGY883	15.0 ± 0.5	>15.0	0 to 2.0	±0.3	20	–61
BGY885A	18.5 ± 0.5	–	0 to 2.0	±0.3	20	–61
BGY885B	20.0 ± 0.5	>20.0	0 to 2.0	±0.3	20	–60
BGY887	21.5 ± 0.5	>21.5	0.2 to 2.0	±0.3	20	–62
BGY887B	29.0 ± 0.5	>29.0	0.5 to 2.5	±0.5	20	–60
BGY888	34.0 ± 0.5	>34.0	0.5 to 2.5	±0.5	20	–60
CGY887A(1.1)	25.5 ± 0.5	26.25 ± 0.75 @870 MHz	0.2 to 1.3	±0.5	20	–62(3.9)

TYPE NUMBER	CROSS MODULATION (dB) MAX. notes: Table 4	COMPOSITE 2nd ORDER BEAT (dB) MAX. notes: Table 5	2nd ORDER BEAT (dB) MAX. notes: Table 6	OUTPUT VOLTAGE (dBmV) MIN. notes: Table 7	NOISE FIGURE (dB) MAX.	TOTAL DC CURRENT CONSUMPTION (mA) MAX.
Power Doublers						
BGD602	–66	–60	–70	63.0	8.0	435
BGD602D	–61	–64	–76	66.0	7.0	440
Forward Amplifier: 40 to 750 MHz Range						
	110 chs(4.4)	**110 chs(5.3)**	**(6.7)**	**(7.6)**	**@750 MHz**	
BGY785A	–56	–53	–65	59.0	7.0	240
BGY785AD	–56	–58	–68	61.0	6.0	265
BGY785AD/8M(1.7)	–56	–58	–68	61.0	6.0	265
BGY787	–52	–53	–63	61.0	6.5	240
BGE788	–51	–52	–64	58.0	7.0	320
Power Doublers						
BGD702/702MI(1.4)	–62	–58	–68	61.0	8.5	435
BGD702D	–59	–62	–72	64.0	7.0	435
BGD704	–61	–56	–66	60.5	8.5	435
Forward Amplifier: 40 to 860 MHz Range						
	49 chs(4.4)	**49 chs(5.4)**	**(6.8)**	**(7.8)**	**@860 MHz**	
BGY883	–61	–61	–68	60.0 typ.	8.5	235
BGY885A	–61	–61	–70	59.0 typ.	8.0	240
BGY885B	–60	–60	–68	59.0 typ.	7.5	235
BGY887	–61	–61	–70	59.0	6.5	235
BGY887B	–60	–60	–70	58.5	6.5	340
BGY888	–59	–55	–65	58.0	7.0	340
CGY887A(1.1)	–55(4.6)	–57(5.6)	–	–	5.0	240

TYPE NUMBER	POWER GAIN (dB)		SLOPE CABLE EQUIVALENT (SL) (dB)	FLATNESS (dB) MAX.	RETURN LOSS (INPUT/OUTPUT) (dB) MIN. notes: Table 2	COMPOSITE TRIPLE BEAT (dB) MAX. notes: Table 3
Cascade Amplifiers						
					(2.5)	
BGE885	17.0 ± 0.5		0.2 to 1.2	±0.5	14(2.6)	–
BGX881	12.5 ± 0.5		0.2 to 1.2	±0.3	20	–
BGX885N	17.0 ± 0.5		0.2 to 1.4	±0.3	20	–
Power Doublers						
						129 chs(3.7)
BGD802/802MI(1.4)	18.5 ± 0.5	>18.5	0.2 to 2.0	±0.5	20(2.3)	–54
BGD802N	18.5 ± 0.5	>18.5	0.2 to 2.0	±0.25	20(2.3)	–54
BGD804	20.0 ± 0.5	>20.0	0.2 to 2.0	±0.5	20(2.3)	–53
BGD804N	20.0 ± 0.5	>20.0	0.2 to 2.0	±0.25	20(2.3)	–53
BGD885(1.5)	17.0 ± 0.5	–	0.2 to 1.6	±0.5	20	–
Power Doubler: 40 to 900 MHz Range						
	@ 50 MHz	**@ 900 MHz**				**129 chs(3.7)**
BGD902/902MI(1.4)	18.5 ± 0.3	19.5 ± 0.5	0.4 to 1.4	±0.3	20(2.7)	–58
BGD902L	18.5 ± 0.3	19.5 ± 0.5	0.4 to 1.4	±0.3	20	–56
BGD904/904MI(1.4)	20.0 ± 0.3	20.0 ± 0.5	0.4 to 1.4	±0.3	20(2.8)	–57.5
BGD904L	20.0 ± 0.3	21.0 ± 0.5	0.4 to 1.4	±0.3	20	–55.5
BGD906/906MI(1.1)(1.4)	21.0 ± 0.5	22.5 ± 0.5	0.9 to 1.9	±0.3	20(2.3)	–56
BGD906L	21.0 ± 0.3	22.5 ± 0.5	0.5 to 1.5	±0.3	20	–54
Forward Amplifier: 40 to 1000 MHz Range						
	@ 50 MHz	**@ 1 GHz**			**(2.1)**	**110/150 chs(3.8)**
BGY1085A	18.5 ± 0.5	>18.5	0 to 2.0	±0.3	20	–53/–53 typ.

TYPE NUMBER	CROSS MODUL-ATION (dB) MAX. notes: Table 4	COMPOSITE 2nd ORDER BEAT (dB) MAX. notes: Table 5	2nd ORDER BEAT (dB) MAX. notes: Table 6	OUTPUT VOLTAGE (dBmV) MIN. notes: Table 7		NOISE FIGURE (dB) MAX.		TOTAL DC CURRENT CONSUMPTION (mA) MAX.
Cascade Amplifiers								
			(6.9)	**(7.7)**	**(7.8)**	@ **350 MHz**	@ **860 MHz**	
BGE885	–	–	–53	–	59.0	7.5	8.0	240
BGX881	–	–	–53	60.5	59.5	8.5	9.0	240
BGX885N	–	–	–53	61.0	60.0	7.5	8.0	240
Power Doublers								
	129 chs(4.4)	**129 chs(5.4)**						
BGD802/802MI(1.4)	–59	–56	–69(6.8)	–	61.5	–	9.0	410
BGD802N	–59	–56	–69	61.5	61.5	–	9.0	410
BGD804	–61	–54	–67(6.8)	–	60.0	–	7.5	410
BGD804N	–58	–54	–67	61.0	61.0	–	8.0	410
BGD885(1.5)	–	–	–53	64.0	63.0	–	8.0	450
Power Doubler: 40 to 900 MHz Range								
	129 chs(4.4)	**129 chs(5.4)**	**(6.8)**	**(7.8)**		@ **50 MHz**	@ **900 MHz**	
BGD902/902MI(1.4)	–62	–58	–74	64.5		5.0	8.0	435
BGD902L	–60	–59	–74	63.0		5.0	7.5	380
BGD904/904MI(1.4)	–61	–58	–75	64.0		5.0	7.5	435
BGD904L	–59	–59	–75	62.5		5.0	7.5	380
BGD906/906MI(1.1)(1.4)	–59	–55	–70	63.0		6.0	8.0	435
BGD906L	–57	–56	–70	61.5		5.5	7.5	380
Forward Amplifier: 40 to 1000 MHz Range								
	110/150 chs(4.5)	**110/150 chs(5.5)**	**(6.10)**	**(7.9)**	**(7.10)**	@ **750 MHz**	@ **1 GHz**	
BGY1085A	–54/–54 typ.	–56/–56 typ.	–65/–68	60.0	59.0 typ.	7.0	7.5 typ.	420

OPTICAL RECEIVERS

TYPE NUMBER	RESPONSIVITY (V/W) MIN.	f_{max} MHz	FLATNESS (dB) MAX.	OUTPUT RETURN LOSS (dB) MAX.	OPTICAL INPUT RETURN LOSSES (dB) MAX.
Optical Receiver: 5 to 300 Mhz Range					
	@λ = 1300 nm				
BGE67BO(1.2)	800	300	±0.3	15	45
BGE67BO/4M(1.2)(1.8)	800	400	±0.3	14	45
BGE67BO/SC(1.2)(1.9)	750	300	±0.3	15	45
Optical Receiver: 40 to 860 Mhz Range					
BGE847BO(1.2)	800	860	±0.5	11	45
BGE847BO/FC(1.2)	750	860	±0.5	11	45
BGE883BO(1.1)(1.2)	400	860	±0.5	17	45
BGE887BO(1.2)	800	860	±0.5	11	45
BGE887BO/FC(1.2)(1.6)	750	860	±0.5	11	45
BGO847	800	870	1	11	45

TYPE NUMBER	EQUIVALENT NOISE INPUT ($pA/\sqrt{Hz}$) MAX.	2nd ORDER BEAT (dB) MAX. notes: Table 6	3rd ORDER BEAT (dB) MAX. notes: Table 8	LENGTH OF FIBRE MIN.		TOTAL DC CURRENT CONSUMPTION (mA) MAX.
Optical Receiver: 5 to 300 Mhz Range						
		(6.4)	(8.1)			
BGE67BO[1.2]	7	–70	–80	1000	1000	190
BGE67BO/4M[1.2][1.8]	7	–70	–80	1000	1000	190
BGE67BO/SC[1.2][1.9]	7	–70	–80	817	917	190
Optical Receiver: 40 to 860 Mhz Range						
		(6.4)	(8.1)			
BGE847BO[1.2]	7	–70	–80	1000	1000	205
BGE847BO/FC[1.2]	7	–70	–80	577	627	205
BGE883BO[1.1][1.2]	13	–76	–92	1000	1000	205
BGE887BO[1.2]	7	–70	–80	1000	1000	205
BGE887BO/FC[1.2][1.6]	7	–70	–80	577	627	205
BGO847	8	–70	–75	1000	1000	205

NOTES IN SELECTION GUIDE

Table 1 Miscellaneous notes.

NOTE IN MAIN TABLE	
1.1	provisional data/advance information
1.2	module has a monomode optical input for wavelengths from 1290 to 1600 nm; PIN diode current-monitoring terminal; 1 meter SM pigtail, 9/125 μm spectral sensitivity: >0.85 A/W at 1310 nm, >0.9 A/W at 1550 nm.
1.4	the MI type has ‘mirror image’ pinning for simplified board layout when put in parallel with the standard type.
1.5	cascade
1.6	as BO but with the pigtail terminated by an FC/APC optical connector.
1.7	frequency range 40 to 870 MHz
1.8	frequency range 40 to 400 MHz
1.9	as BO but with the pigtail terminated by an SC/APC optical connector.

Table 3 Measuring conditions for composite triple beat.

NOTE IN MAIN TABLE	MEASURED AT (MHz)	V_O (dBmV)
3.1	25	50
3.2	67.25	48
3.3	175.25 (channel 7)	50
3.4	547.25 (channel 27)	44
3.5	595.25 (channel 35)	44
3.6	745.25	44
3.7	859.25	44
3.8	1st value; 745.25 MHz	44
	2nd value; 985.25 MHz	40
3.9	745.25	40

Table 2 Return loss notes.

NOTE IN MAIN TABLE	RETURN LOSS
2.1	measured at 40 MHz, max. decrease 1.5 dB/octave
2.2	>20 dB from 40 to 80 MHz >19 dB from 80 to 160 MHz >18 dB from 160 to 450 MHz, 550 MHz or 600 MHz as appropriate
2.3	>20 dB from 40 to 80 MHz >18.5 dB from 80 to 160 MHz >17 dB from 160 to 320 MHz >15.5 dB from 320 to 640 MHz >14 dB from 640 to 750 MHz, 860 MHz or 900 MHz as appropriate
2.4	>20 dB from 40 to 80 MHz >19 dB from 80 to 160 MHz >18 dB from 160 to 320 MHz >17 dB from 320 to 640 MHz >16 dB from 640 to 750 MHz
2.5	measured at 40 MHz, max. decrease 1.5 dB/octave up to 800 MHz; from 800 to 860 MHz, return loss is >10 dB
2.6	>14 dB from 40 to 450 MHz >10 dB from 450 to 860 MHz
2.7	>20 dB from 40 to 80 MHz >21 dB from 80 to 160 MHz >21 dB from 160 to 320 MHz >18 dB from 320 to 640 MHz >17 dB from 640 to 900 MHz
2.8	>20 dB from 40 to 160 MHz >17 dB from 160 to 550 MHz >15.5 dB from 550 to 650 MHz >14 dB from 650 to 900 MHz

Table 4 Measuring conditions for cross modulation.

NOTE IN MAIN TABLE	MEASURED AT (MHz)	V_O (dBmV)
4.1	25	50
4.2	67.25	48
4.3	55.25 (channel 2)	50
4.4	55.25 (channel 2)	44
4.5	1st value; 55.25 (channel 2) for 110 channels; 750 MHz b/w	44
	2nd value; 55.25 (channel 2) for 150 channels; 1000 MHz b/w	40
4.6	55.25	40

Table 5 Measuring conditions for composite second-order beat.

NOTE IN MAIN TABLE	MEASURED AT (MHz)	V_O (dBmV)
5.1	548.5 (channel 27)	44
5.2	596.5 (channel 35)	44
5.3	746.5 (channel 2)	44
5.4	860.5	44
5.5	1st value; 746.5 MHz	44
	2nd value; 986.5 MHz	40
5.6	860.5	40

Table 6 Measuring conditions for 2nd order beat measured at $f_p + f_q$.

NOTE IN MAIN TABLE	f_p (MHz)	f_q (MHz)	$f_p + f_q$ (MHz)	V_O[1] (dBmV)
6.1	19	31	50	50
6.2	55.25	61.25	116.5	48
6.3	83.25	109.25	192.5	50
6.4	−70 dBc; 2 laser test (each laser: 0.5 mW; 40% modulation index)			
6.5	55.25 (channel 2)	493.25 (channel 18)	548.5 (channel 27)	44
6.6	55.25 (channel 2)	541.25	596.5	44
6.7	55.25 (channel 2)	691.25	746.5	44
6.8	55.25 (channel 2)	805.25	860.5	44
6.9	349.25	403.25	752.5	59
6.10	1st value; 55.25 (channel 2)	691.25	746.25	44
	2nd value; 55.25 (channel 2)	931.25	986.25	40

Note

1. $V_o = V_p = V_q$.

Table 7 Measuring conditions for output voltage[1].

NOTE IN MAIN TABLE	f_p (MHz)	f_q (MHz)	f_r (MHz)	$f_p + f_q - f_r$ (MHz)
7.1	111.25	118.25	120.25	109.25
7.2	35.25	42.25	44.25	33.25
7.3	187.25	194.25	196.25	185.25
7.4	540.25	547.25	549.25	538.25
7.5	590.25	597.25	599.25	588.25
7.6	740.25	747.25	749.25	738.25
7.7	341.25	348.25	350.25	339.25
7.8	851.25	858.25	860.25	849.25
7.9	740.25	747.25	749.25	738.25
7.10	980.25	987.25	989.25	978.25

Note

1. All output voltages measured at $f_p + f_q - f_r$, and for an intermodulation distortion of –60 dB (DIN 45004B, par. 6.3: 3 tone); $V_p = V_o$, $V_q = V_o - 6$ dB, $V_r = V_o - 6$ dB.

Table 8 Measuring conditions for 3rd order beat measured at $f_p + f_q - f_r$.

NOTE IN MAIN TABLE	
8.1	–80 dB, 3 laser test (each laser: 0.33 mW; 40% modulation index).

General Remarks

- All devices are cascode types except where indicated otherwise
- Source and load impedance of all devices is 75 Ω
- Characteristics specified at T_{mb} = 30 °C and measured at 24 V DC supply
- Cross modulation and beats are flat-channel measurements, that is, measured with all channel outputs at the specified V_o.

CROSS-REFERENCE GUIDE FOR WIDEBAND HYBRID AMPLIFIER MODULES

INDUSTRIAL TYPE	PHILIPS REPLACEMENT	FREQUENCY (MHz)	GAIN (dB)
CA901	BGX885N	40 to 860	17
CA901A	BGX885N	40 to 860	17
CA922	BGD885	40 to 860	17
CA922A	BGD885	40 to 860	17
D5540185	BGD502	40 to 550	18
D7540185	BGD702	40 to 750	18
D7540200	BGD704	40 to 750	20
D8640185	BGD802	40 to 860	18
MC7852	BGY885A	40 to 860	18
MC7856	BGY887	40 to 860	22
MC7862	BGD802	40 to 860	18
MHW1134	BGY61	5 to 200	13
MHW1184	BGY65	5 to 200	18
MHW1224	BGY67	5 to 200	22
MHW1244	BGY67A	5 to 200	24
MHW1304L	BGY68	5 to 75	30
MHW5182A	BGY85A	40 to 450	18
MHW5222A	BGY87	40 to 450	22
MHW5342T	BGY88	40 to 450	34
MHW5382A	BGY86	40 to 450	38

Wideband Hybrid Amplifier Modules for CATV

Selection guide

INDUSTRIAL TYPE	PHILIPS REPLACEMENT	FREQUENCY (MHz)	GAIN (dB)
MHW6142	BGY583	40 to 550	14
MHW6182	BGY585A	40 to 550	18
MHW6185B	BGD502	40 to 550	18
MHW6222	BGY587	40 to 550	22
MHW6272	BGY587B	40 to 550	27
MHW6342	BGY588	40 to 550	34
MHW6342T	BGY588	40 to 550	34
MHW7182B	BGY785A	40 to 750	18
MHW7185C	BGD702	40 to 750	18
MHW7185CR	BGD702MI	40 to 750	18
MHW7205C	BGD704	40 to 750	20
MHW7222	BGY787	40 to 750	22
MHW7222A	BGY787	40 to 750	22
MHW8142	BGY883	40 to 860	14
MHW8182B	BGY885A	40 to 860	18
MHW8185	BGD802	40 to 860	18
MHW8185R	BGD802MI	40 to 860	18
MHW8205	BGD804	40 to 860	20
MHW8222	BGY887	40 to 860	22
MHW9182B	BGY1085A	40 to 1000	18
R0605300L	BGY68	5 to 75	30
R2005240	BGY67A	5 to 200	24
S5540220	BGY587	40 to 550	22
S7540185	BGY785A	40 to 750	18
S7540215	BGY787	40 to 750	22

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