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Product data sheet

1. Product profile

1.1 General description

Hybrid amplifier module in a SOT115J package operating with a voltage supply of $24\ V\ (DC)$.

CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Therefore care should be taken during transport and handling.

1.2 Features and benefits

- Extremely low noise
- Silicon nitride passivation
- Rugged construction
- Gold metallization ensures excellent reliability
- Excellent linearity

1.3 Applications

CATV systems operating in the frequency range of 40 MHz to 750 MHz

1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz	21	21.5	22	dB
		f = 750 MHz	21.5	22.5	-	dB
I _{tot}	total current consumption (DC)	$V_B = 24 V$	[1] -	220	240	mA

^[1] The module normally operates at $V_B = 24 \text{ V}$, but is able to withstand supply transients up to 30 V.



750 MHz, 21.5 dB gain push-pull amplifier

2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Symbol
1	input		
2	common	1 3 5 7 9	5
3	common		$\frac{1}{2}$
5	+V _B		
7	common		2 3 7 8 sym095
8	common		•
9	output	_	

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BGY787	-	rectangular single-ended package; aluminium flange; 2 vertical mounting holes; $2 \times 6-32$ UNC and 2 extra horizontal mounting holes; 7 gold-plated in-line leads	SOT115J

4. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V_{i}	RF input voltage		-	60	dBmV
T _{stg}	storage temperature		-40	+100	°C
T_{mb}	mounting base temperature		-20	+100	°C

750 MHz, 21.5 dB gain push-pull amplifier

5. Characteristics

Table 5. Characteristics at bandwidth 40 MHz to 750 MHz

 $V_B=24~V;~T_{case}=30~^{\circ}C;~Z_S=Z_L=75~\Omega.$

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Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz		21	21.5	22	dB
		f = 750 MHz		21.5	22.5	-	dB
SL	slope cable equivalent	f = 40 MHz to 750 MHz		0	1	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 750 MHz		-	±0.2	±0.5	dB
S ₁₁	input return losses	f = 40 MHz to 80 MHz		20	33	-	dB
		f = 80 MHz to 160 MHz		18.5	30	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 640 MHz		15.5	22	-	dB
		f = 640 MHz to 750 MHz		14	20.5	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz		20	28.5	-	dB
		f = 80 MHz to 160 MHz		18.5	27.5	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 640 MHz		15.5	22	-	dB
		f = 640 MHz to 750 MHz		14	20	-	dB
ΨS21	phase response	f = 50 MHz		-45	-	+45	deg
СТВ	composite triple beat	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 745.25 MHz		-	-54.5	-53	dB
X_{mod}	cross modulation	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 55.25 MHz		-	-54	-52	dB
CSO	composite second order distortion	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 746.5 MHz		-	-57.5	-53	dB
d ₂	second order distortion		[1]	-	-75	-63	dB
Vo	output voltage	$d_{im} = -60 \text{ dB}$	[2]	61	63	-	dBmV
F	noise figure	f = 50 MHz		-	4	5	dB
		f = 450 MHz		-	-	5.5	dB
		f = 550 MHz		-	-	5.5	dB
		f = 600 MHz		-	-	6	dB
		f = 750 MHz		-	5	6.5	dB
I _{tot}	total current consumption (DC)		[3]	-	220	240	mA

 $^{[1] \}quad f_p = 55.25 \text{ MHz}; \ V_p = 44 \text{ dBmV}; \ f_q = 691.25 \text{ MHz}; \ V_q = 44 \text{ dBmV}; \ measured \ at \ f_p + f_q = 746.5 \text{ MHz}.$

^[2] Measure according to DIN45004B; $f_p = 740.25 \text{ MHz}; \ V_p = V_o; \ f_q = 747.25 \text{ MHz}; \ V_q = V_o - 6 \text{ dB}; \ f_r = 749.25 \text{ MHz}; \ V_r = V_o - 6 \text{ dB}; \ measured at \ f_p + f_q - f_r = 738.25 \text{ MHz}.$

^[3] The module normally operates at $V_B = 24 \ V$, but is able to withstand supply transients up to 30 V.

750 MHz, 21.5 dB gain push-pull amplifier

Table 6. Characteristics at bandwidth 40 MHz to 770 MHz

 $V_B=24~V;~T_{case}=30~^{\circ}C;~Z_S=Z_L=75~\Omega.$

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz		21	21.5	22	dB
		f = 770 MHz		21.5	22.5	-	dB
SL	slope cable equivalent	f = 40 MHz to 770 MHz		0	1	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 770 MHz		-	±0.2	±0.5	dB
s ₁₁	input return losses	f = 40 MHz to 80 MHz		20	33	-	dB
		f = 80 MHz to 160 MHz		18.5	30	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 640 MHz		15.5	22.5	-	dB
		f = 640 MHz to 770 MHz		14	20.5	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz		20	28.5	-	dB
		f = 80 MHz to 160 MHz		18.5	27.5	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 640 MHz		15.5	22	-	dB
		f = 640 MHz to 770 MHz		14	20	-	dB
 9S21	phase response	f = 50 MHz		-45	-	+45	deg
СТВ	composite triple beat	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 745.25 MHz		-	-54.5	-53	dB
X_{mod}	cross modulation	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 55.25 MHz		-	-54	-52	dB
CSO	composite second order distortion	110 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 746.5 MHz		-	-57.5	-53	dB
d ₂	second order distortion		[1]	-	-75	-63	dB
Vo	output voltage	$d_{im} = -60 \text{ dB}$	[2]	61	63	-	dBmV
F	noise figure	f = 50 MHz		-	4	5	dB
		f = 450 MHz		-	-	5.5	dB
		f = 550 MHz		-	-	5.5	dB
		f = 600 MHz		-	-	6	dB
		f = 770 MHz		-	5	6.5	dB
			[3]		220	240	mA

 $^{[1] \}quad f_p = 55.25 \text{ MHz}; \ V_p = 44 \text{ dBmV}; \ f_q = 691.25 \text{ MHz}; \ V_q = 44 \text{ dBmV}; \ measured \ at \ f_p + f_q = 746.5 \text{ MHz}.$

^[2] Measure according to DIN45004B; $f_p = 740.25 \text{ MHz}; \ V_p = V_o; \ f_q = 747.25 \text{ MHz}; \ V_q = V_o - 6 \text{ dB}; \ f_r = 749.25 \text{ MHz}; \ V_r = V_o - 6 \text{ dB}; \ measured at \ f_p + f_q - f_r = 738.25 \text{ MHz}.$

^[3] The module normally operates at $V_B = 24 \text{ V}$, but is able to withstand supply transients up to 30 V.

750 MHz, 21.5 dB gain push-pull amplifier

Table 7. Characteristics at bandwidth 40 MHz to 600 MHz

 $V_B = 24 \ V; \ T_{case} = 30 \ ^{\circ}C; \ Z_S = Z_L = 75 \ \Omega.$

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz		21	21.5	22	dB
		f = 600 MHz		21.5	-	-	dB
SL	slope cable equivalent	f = 40 MHz to 600 MHz		0	-	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 600 MHz		-	-	±0.3	dB
S ₁₁	input return losses	f = 40 MHz to 80 MHz		20	33	-	dB
		f = 80 MHz to 160 MHz		18.5	30	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 600 MHz		16	22.5	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz;		20	28.5	-	dB
		f = 80 MHz to 160 MHz		18.5	27.5	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 600 MHz		16	22	-	dB
ΨS21	phase response	f = 50 MHz		-45	-	+45	deg
СТВ	composite triple beat	85 channels flat; $V_o = 44$ dBmV; measured at 595.25 MHz		-	-59.5	-58	dB
X_{mod}	cross modulation	85 channels flat; $V_o = 44$ dBmV; measured at 55.25 MHz		-	-55.5	-53	dB
CSO	composite second order distortion	85 channels flat; $V_0 = 44$ dBmV; measured at 596.5 MHz		-	-64	-56	dB
d ₂	second order distortion		<u>[1]</u>	-	-	-68	dB
Vo	output voltage	$d_{im} = -60 \text{ dB}$	[2]	62.5	-	-	dBmV
F	noise figure	see <u>Table 5</u>		-	-	-	dB
I _{tot}	total current consumption (DC)		[3]	-	220	240	mA

 $^{[1] \}quad f_p = 55.25 \text{ MHz}; \ V_p = 44 \text{ dBmV}; \ f_q = 541.25 \text{ MHz}; \ V_q = 44 \text{ dBmV}; \ measured \ at \ f_p + f_q = 596.5 \text{ MHz}.$

^[2] Measure according to DIN45004B; $f_p = 590.25 \text{ MHz}; \ V_p = V_o; \ f_q = 597.25 \text{ MHz}; \ V_q = V_o - 6 \text{ dB}; \ f_r = 599.25 \text{ MHz}; \ V_r = V_o - 6 \text{ dB}; \ measured at } f_p + f_q - f_r = 588.25 \text{ MHz}.$

^[3] The module normally operates at $V_B = 24$ V, but is able to withstand supply transients up to 30 V.

750 MHz, 21.5 dB gain push-pull amplifier

Table 8. Characteristics at bandwidth 40 MHz to 550 MHz

 $V_B = 24 \ V; \ T_{case} = 30 \ ^{\circ}C; \ Z_S = Z_L = 75 \ \Omega.$

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz		21	21.5	22	dB
		f = 550 MHz		21.5	-	-	dB
SL	slope cable equivalent	f = 40 MHz to 550 MHz		0	-	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 550 MHz		-	-	±0.3	dB
S ₁₁	input return losses	f = 40 MHz to 80 MHz		20	33	-	dB
		f = 80 MHz to 160 MHz		18.5	30	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 550 MHz		16	22.5	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz		20	28.5	-	dB
		f = 80 MHz to 160 MHz		18.5	27.5	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 550 MHz		16	22	-	dB
ΨS21	phase response	f = 50 MHz		-45	-	+45	deg
СТВ	composite triple beat	77 channels flat; $V_0 = 44 \text{ dBmV}$; measured at 547.25 MHz		-	-61	-60	dB
X_{mod}	cross modulation	77 channels flat; $V_o = 44 \text{ dBmV}$; measured at 55.25 MHz		-	-56.5	–55	dB
CSO	composite second order distortion	77 channels flat; $V_o = 44 \text{ dBmV}$; measured at 548.5 MHz		-	-65.5	-58	dB
d ₂	second order distortion		<u>[1]</u>	-	-	-70	dB
Vo	output voltage	$d_{im} = -60 \text{ dB}$	[2]	63	-	-	dBmV
F	noise figure	see <u>Table 5</u>		-	-	-	dB
I _{tot}	total current consumption (DC)		[3]	-	220	240	mA

 $^{[1] \}quad f_p = 55.25 \text{ MHz}; \ V_p = 44 \text{ dBmV}; \ f_q = 493.25 \text{ MHz}; \ V_q = 44 \text{ dBmV}; \ measured \ at \ f_p + f_q = 548.5 \text{ MHz}.$

^[2] Measure according to DIN45004B; $f_p = 540.25 \text{ MHz}; \ V_p = V_o; \ f_q = 547.25 \text{ MHz}; \ V_q = V_o - 6 \text{ dB}; \ f_r = 549.25 \text{ MHz}; \ V_r = V_o - 6 \text{ dB}; \ measured at } f_p + f_q - f_r = 538.25 \text{ MHz}.$

^[3] The module normally operates at $V_B = 24$ V, but is able to withstand supply transients up to 30 V.

750 MHz, 21.5 dB gain push-pull amplifier

Table 9. Characteristics at bandwidth 40 MHz to 450 MHz

 $V_B=24~V;~T_{case}=30~^{\circ}C;~Z_S=Z_L=75~\Omega.$

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Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Gp	power gain	f = 50 MHz		21	21.5	22	dB
		f = 450 MHz		21.5	-	-	dB
SL	slope cable equivalent	f = 40 MHz to 450 MHz		0	-	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 450 MHz		-	-	±0.3	dB
s ₁₁	input return losses	f = 40 MHz to 80 MHz		20	33	-	dB
		f = 80 MHz to 160 MHz		18.5	30	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 450 MHz		16	22.5	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz		20	28.5	-	dB
		f = 80 MHz to 160 MHz		18.5	27.5	-	dB
		f = 160 MHz to 320 MHz		17	25	-	dB
		f = 320 MHz to 450 MHz		16	22	-	dB
ΨS21	phase response	f = 50 MHz		-45	-	+45	deg
СТВ	composite triple beat	60 channels flat; $V_0 = 46 \text{ dBmV}$; measured at 445.25 MHz		-	-	–59	dB
X_{mod}	cross modulation	60 channels flat; $V_0 = 46 \text{ dBmV}$; measured at 55.25 MHz		-	-	-54	dB
CSO	composite second order distortion	60 channels flat; $V_0 = 46 \text{ dBmV}$; measured at 446.5 MHz		-	-	-60	dB
d ₂	second order distortion		<u>[1]</u>	-	-	-73	dB
Vo	output voltage	$d_{im} = -60 \text{ dB}$	[2]	64	-	-	dBmV
F	noise figure	see Table 5		-	-	-	dB
I _{tot}	total current consumption (DC)		[3]	-	220	240	mA

 $^{[1] \}quad f_p = 55.25 \text{ MHz}; \ V_p = 46 \text{ dBmV}; \ f_q = 391.25 \text{ MHz}; \ V_q = 46 \text{ dBmV}; \ measured \ at \ f_p + f_q = 446.5 \text{ MHz}.$

^[2] Measure according to DIN45004B; $f_p = 440.25 \text{ MHz}; \ V_p = V_o; \ f_q = 447.25 \text{ MHz}; \ V_q = V_o - 6 \text{ dB}; \ f_r = 449.25 \text{ MHz}; \ V_r = V_o - 6 \text{ dB}; \ measured at \ f_p + f_q - f_r = 438.25 \text{ MHz}.$

^[3] The module normally operates at $V_B = 24\ V$, but is able to withstand supply transients up to 30 V.

750 MHz, 21.5 dB gain push-pull amplifier

6. Package outline

Rectangular single-ended package; aluminium flange; 2 vertical mounting holes; 2 x 6-32 UNC and 2 extra horizontal mounting holes; 7 gold-plated in-line leads

SOT115J

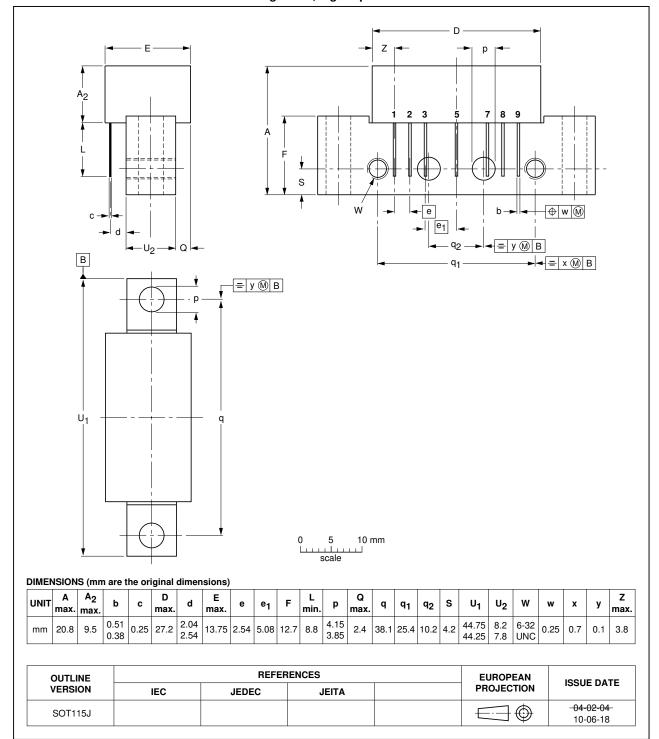


Fig 1. Package outline SOT115J

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750 MHz, 21.5 dB gain push-pull amplifier

7. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BGY787 v.9	20110919	Product data sheet	-	BGY787 v.8
Modifications:		of this data sheet has been of NXP Semiconductors.	redesigned to comply v	vith the new identity
	 Legal texts 	have been adapted to the ne	ew company name whe	ere appropriate.
	 Package out 	ıtline drawings have been up	odated to the latest vers	sion.
BGY787 v.8 (9397 750 14773)	20050401	Product data sheet	-	BGY787 v.7
BGY787 v.7 (9397 750 11198)	20030516	Product specification	-	BGY787 v.6
BGY787 v.6 (9397 750 08811)	20011031	Product specification	-	BGY787 v.5
BGY787 v.5 (9397 750 05455)	19990330	Product specification	-	BGY787 v.4
BGY787 v.4 (9397 750 02951)	19971124	Product specification	-	BGY787 v.3
BGY787 v.3 (9397 750 02155)	19970414	Product specification	-	-

750 MHz, 21.5 dB gain push-pull amplifier

8. Legal information

8.1 Data sheet status

Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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BGY787

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750 MHz, 21.5 dB gain push-pull amplifier

Quick reference data — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

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BGY787 NXP Semiconductors

750 MHz, 21.5 dB gain push-pull amplifier

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