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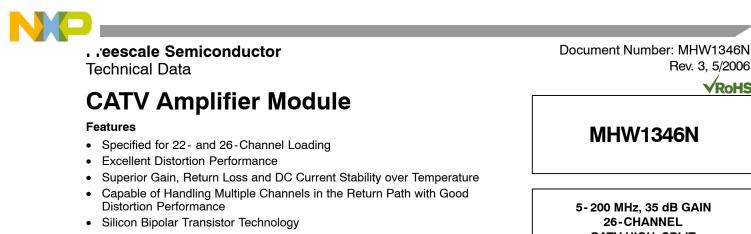
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• Unconditionally Stable Under All Load Conditions

Applications

- CATV Systems Operating in the 5 to 200 MHz Frequency Range
- Designed for Broadband Applications Requiring Low Distortion Characteristics
- Specified for Use as a Return Path Amplifier for Low-, Mid- and High-Split 2-Way Cable TV Systems

Description

INFORMA

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- 24 Vdc Supply, 5 to 200 MHz, CATV Reverse Amplifier Module
- Replaced MHW1346. There are no form, fit or function changes with this part replacement.
- **RoHS** Compliant

Table 1. Maximum Ratings

Rating	Symbol	Value	Unit
RF Voltage Input (Single Tone)	V _{in}	+65	dBmV
DC Supply Voltage	V _{CC}	+28	Vdc
Operating Case Temperature Range	T _C	- 20 to +100	°C
Storage Temperature Range	T _{stg}	- 40 to +100	°C

Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_C = +30°C, 75 Ω system, unless otherwise noted)

Characteri	Symbol	Min	Тур	Max	Unit	
Bandwidth	All	BW	5	_	200	MHz
Power Gain	(f = 5 MHz)	Gp	34.5	35	35.8	dB
Slope	(5-200 MHz)	S	0	—	1.0	dB
Gain Flatness (Peak To Valley)	(5-200 MHz)	G _F	_	0.6	1	dB
Return Loss — Input/Output		IRL/ORL				dB
	(@ f = 5-65 MHz)		20	24	_	
	(@ f = 65-200 MHz)		16	20	—	
Composite Second Order					dBc	
(V _{out} = +50 dBmV per Ch., Worst Case)						
5-175 MHz	22-Channel FLAT	CSO ₂₂	—	-76	-72	
5-200 MHz	26-Channel FLAT	CSO ₂₆	—	- 75	-	

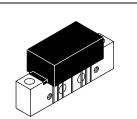
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Rev. 3, 5/2006

√RoHS

5-200 MHz, 35 dB GAIN 26-CHANNEL CATV HIGH-SPLIT **REVERSE AMPLIFIER** MODULE







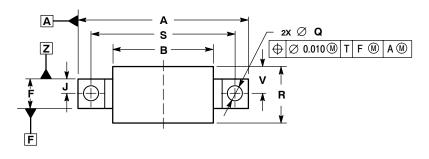
Characteristic		Symbol	Min	Тур	Max	Unit
Cross Modulation Distortion					dBc	
(V _{out} = +50 dBmV per Ch., Wors	t Case)					
	22-Channel FLAT	XMD ₂₂	_	- 64	- 60	
	26-Channel FLAT	XMD ₂₆	_	- 63	—	
Composite Triple Beat						dBc
(V _{out} = +50 dBmV per Ch., Wors	t Case)					
5-175 MHz	22-Channel FLAT	CTB ₂₂	_	- 72	- 68	
5-200 MHz	26-Channel FLAT	CTB ₂₆	—	- 70	—	
Noise Figure		NF				dB
	(f = 200 MHz)			3.5	5	
DC Current		I _{DC}	310	325	350	mA

Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_C = 30° C, 75 Ω system, unless otherwise noted) (continued)

MHW1346N



PACKAGE DIMENSIONS



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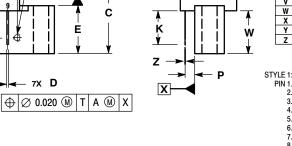
4X G

2X 6-32UNC-2B

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⊕ Ø 0.010 M Z T A M

	INC	HES	MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α		1.775		45.085	
В		1.085		27.559	
С		0.840		21.336	
D	0.015	0.021	0.381	0.533	
Е	0.465	0.510	11.811	12.954	
F	0.300	0.325	7.62	8.255	
G	0.100	BSC	2.540 BSC		
J	0.156	BSC	3.962 BSC		
K	0.315	0.355	8.001	9.017	
L	1.000 BSC		25.400 BSC		
Ν	0.165 BSC		4.191 BSC		
Ρ	0.100 BSC		2.540 BSC		
Q	0.148	0.168	3.759	4.267	
R		0.600		15.24	
S	1.500 BSC		38.100 BSC		
U	0.200 BSC		5.080 BSC		
V		0.250		6.350	
W	0.435		11.049		
X	0.400 BSC		10.160 BSC		
Y	0.152	0.163	3.861	4.140	
Ζ	0.009	0.011	0.229	0.279	



1:				
1.	RF	INP	UT	
2.	GR	OUI	ND	
3.	GR	oui	ND	
4.	DEI	ET	ΈD	
5.	VD	С		
6.	DEI	ET	ΈD	
7.	GR	our	ND	
8.	GR	DUI	ND	
9.	RF	OU	TPL	JT
	1. 2. 3. 4. 5. 6. 7. 8.	1. RF 2. GR 3. GR 4. DEI 5. VD 6. DEI 7. GR 8. GR	1. RF INP 2. GROUI 3. GROUI 4. DELET 5. VDC 6. DELET 7. GROUI 8. GROUI	1. RF INPUT 2. GROUND 3. GROUND 4. DELETED

CASE 1302-01 **ISSUE E**

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