Features

- Specified for 6- and 10-Channel Loading
- **Excellent Distortion Performance**
- Low Power Consumption
- Capable of Handling Multiple Channels in the Return Path with Good Distortion Performance
- Silicon Bipolar Transistor Technology
- Unconditionally Stable Under All Load Conditions

Applications

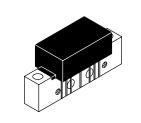
- CATV Systems Operating in the 5 to 65 MHz Frequency Range
- Specified for Use as a Return Path Amplifier for Low-Split 2-Way Cable TV Systems

Description

- 24 Vdc Supply, 5 to 65 MHz, CATV Reverse Amplifier Module
- Replaced MHW1254LA. There are no form, fit or function changes with this part replacement.
- **RoHS Compliant**

MHW1254LAN

5-65 MHz, 25.5 dB, 10-CHANNEL **CATV LOW CURRENT AMPLIFIER MODULE**



CASE 1302-01, STYLE 1

Table 1. Maximum Ratings

Parameter	Symbol	Value	Unit	
DC Supply Voltage	V _{CC}	+28	Vdc	
RF Input Voltage (Single Tone)	V _{in}	+60	dBmV	
Operating Case Temperature Range		-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)

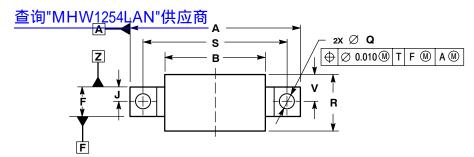
Characteristic		Symbol	Min	Тур	Max	Unit
Bandwidth	All	BW	5	_	65	MHz
Power Gain	(f = 5 MHz)	G _p	25	25.5	26	dB
Slope	(5-65 MHz)	S	-0.2	=	0.5	dB
Gain Flatness (Peak To Valley)	(5-65 MHz)	G _F	_	_	0.4	dB
Return Loss — Input/Output	(@ f = 5-65 MHz)	IRL/ORL	20	_	_	dB
Composite Second Order (Vout = +50 dBmV per Ch., Worst	Case)					dBc
, 551	6-Channel FLAT 10-Channel FLAT	CSO ₆ CSO ₁₀	_ _	-73 -71	-68 -66	

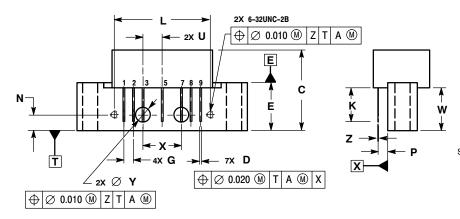
Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_{C} = 30 $^{\circ}$ C, 75 Ω system, unless otherwise noted) (continued)

查询"MHW1254 Charact ering	控 商	Symbol	Min	Тур	Max	Unit
Cross Modulation Distortion						dBc
(Vout = +50 dBmV per Ch., Worst C	ase)					
	6-Channel FLAT	XMD_6	_	- 69	- 65	
	10-Channel FLAT	XMD ₁₀	_	- 64	- 61	
Composite Triple Beat						dBc
(V _{out} = +50 dBmV per Ch., Worst C	ase)					
	6-Channel FLAT	CTB ₆	_	- 78	- 75	
	10-Channel FLAT	CTB ₁₀	_	- 69	- 66	
Noise Figure		NF				dB
	(f = 5-65 MHz)		_	5.8	6.5	
DC Current		I _{DC}	85	95	110	mA

ARCHIVE INFORMATION

PACKAGE DIMENSIONS





	INCHES		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		3.96	BSC	
K	0.315	0.355	8.001	9.017	
L	1.000	1.000 BSC		0 BSC	
N	0.165 BSC		4.191 BSC		
Р	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		
٧	-	0.250		6.350	
W	0.435		11.049		
Х	0.400 BSC		10.160 BSC		
Υ	0.152	0.163	3.861	4.140	
Z	0.009	0.011	0.229	0.279	

- STYLE 1:
 PIN 1. RF INPUT
 2. GROUND
 3. GROUND
 4. DELETED
 5. VDC
 6. DELETED
 7. GROUND
 8. GROUND
 9. RF OUTPUT

CASE 1302-01 ISSUE E

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查询"MHW1254LAN"供应商

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