RoHS

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

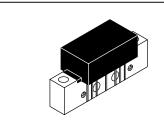
- CATV Systems Operating in the 5 to 65 MHz Frequency Range
- Specified for Use as a Return Path Amplifier for Low-Split 2-Way Cable TV Systems

Description

- 24 Vdc Supply, 5 to 65 MHz, CATV Reverse Amplifier Module
- Replaced MHW1354LA. There are no form, fit or function changes with this part replacement.
- RoHS Compliant

MHW1354LAN

5-65 MHz, 35.2 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 | 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)

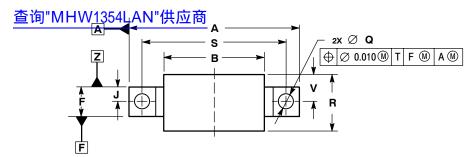
| Characteristic | | Symbol | Min | Тур | Max | Unit |
|---|--|---------------------------------------|------|------------|------------|------|
| Bandwidth | All | BW | 5 | _ | 65 | MHz |
| Power Gain (f = 5 MHz) | | Gp | 34.5 | 35.2 | 35.7 | dB |
| Slope (5-65 MHz) | | S | -0.2 | _ | 0.5 | dB |
| Gain Flatness (Peak To Valley) (5-65 MHz) | | G _F | _ | _ | 0.5 | dB |
| Return Loss — Input/Output (@ f = 5-65 MHz) | | IRL/ORL | 20 | _ | _ | dB |
| Composite Second Order (V _{out} = +50 dBmV per Ch., Worst | Case) 6-Channel FLAT 10-Channel FLAT | CSO ₆ CSO ₁₀ | _ | -73 -69 | -68 -65 | dBc |

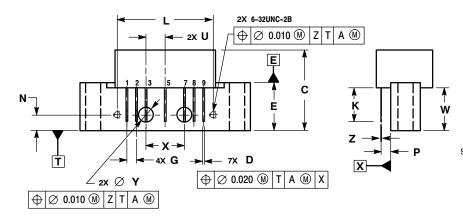
Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_{C} = 30°C, 75 Ω system, unless otherwise noted) (continued)

| 查询"MHW1354 Changle(快)的 | 曾 | Symbol | Min | Тур | Max | Unit |
|--|-----------------|-------------------|-----|------|------|------|
| Cross Modulation Distortion | | | | | | dBc |
| (V _{out} = +50 dBmV per Ch., Worst Ca | se) | | | | | |
| | 6-Channel FLAT | XMD_6 | | - 66 | - 63 | |
| | 10-Channel FLAT | XMD ₁₀ | _ | - 60 | - 57 | |
| Composite Triple Beat | | | | | | dBc |
| (V _{out} = +50 dBmV per Ch., Worst Ca | se) | | | | | |
| | 6-Channel FLAT | CTB ₆ | | - 75 | - 73 | |
| | 10-Channel FLAT | CTB ₁₀ | _ | - 65 | - 62 | |
| Noise Figure | | NF | | | | dB |
| | (f = 5-65 MHz) | | _ | 4.4 | 5.4 | |
| DC Current | | I _{DC} | 85 | 95 | 110 | mA |

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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 | | |
| E | 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 | | | |
| N | 0.165 | BSC | 4.191 BSC | | SC 4.191 BSC | |
| P | 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 | | | |
| Х | 0.400 BSC | | 10.160 BSC | | | |
| Y | 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"MHW1354LAN"供应商

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