

查询"MHW6185B-D"供应商

The next generation of higher performance products are in development. Visit our online Selector Guides (<http://mot-sps.com/rf/sg/sg.html>) for scheduled introduction dates.

The RF Line

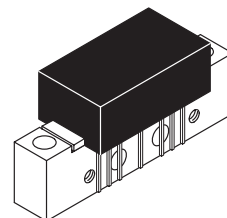
High Output Doubler 550 MHz CATV Amplifier Module

The MHW6185B is designed specifically for 550 MHz CATV applications. Features ion-implanted arsenic emitter transistors and an all gold metallization system.

- 5th Generation Die Technology
- Specified for 77-Channel Performance
- Broadband Power Gain — @ $f = 40\text{--}550\text{ MHz}$
 $G_p = 18.5\text{ dB Typ @ } 50\text{ MHz}$
 $19.5\text{ dB Typ @ } 550\text{ MHz}$
- Broadband Noise Figure
 $NF = 4.5\text{ dB Typ @ } 50\text{ MHz}$
- Improvement in Distortion Over Conventional Hybrids
- Allows Higher Output Level Operation

MHW6185B

**18 dB GAIN
550 MHz
77-CHANNEL
CATV AMPLIFIER**



CASE 714Y-03, STYLE 1

ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit
RF Voltage Input (Single Tone)	V_{in}	+70	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

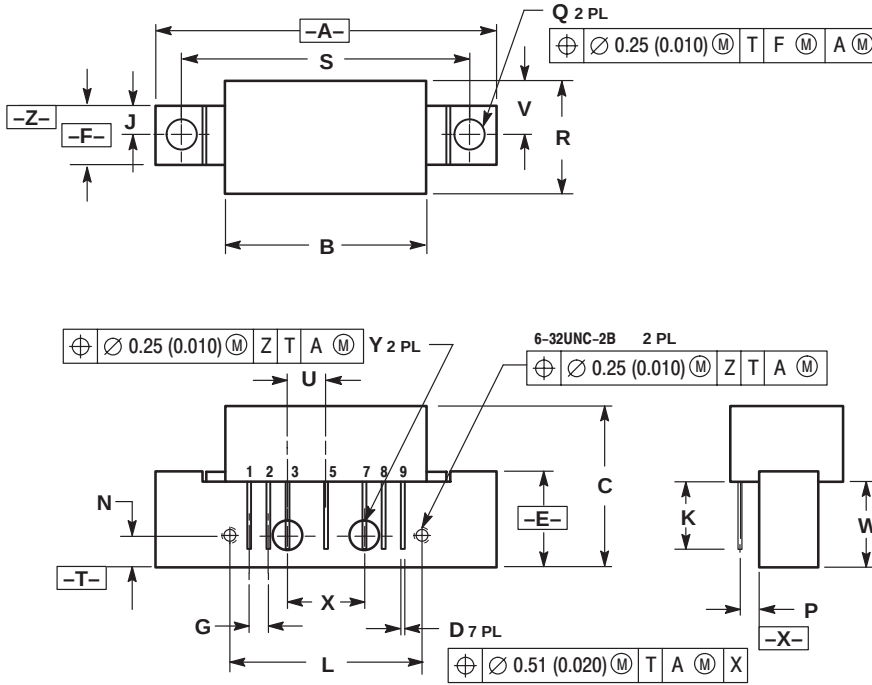
ELECTRICAL CHARACTERISTICS ($V_{CC} = 24\text{ Vdc}$, $T_C = +30^\circ\text{C}$, $75\ \Omega$ system unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	40	—	550	MHz
Power Gain 50 MHz 550 MHz	G_p	18 18.8	18.5 19.5	19 20.5	dB
Slope 40-550 MHz	S	0.3	—	2.0	dB
Gain Flatness (Peak To Valley)	—	—	—	0.5	dB
Return Loss — Input/Output ($Z_0 = 75\text{ Ohms}$) 40-550 MHz	IRL/ORL	18	—	—	dB
Composite Second Order 77 ch, ($V_{out} = +44\text{ dBmV}$)	CSO_{77}	—	-68	-65	dB
Cross Modulation Distortion 77 ch, $V_{out} = +44\text{ dBmV @ } F_m = 55\text{ MHz}$	XMD_{77}	—	-78	-68	dB
Signal-to-Triple Beat Noise 77 ch, $V_{out} = +44\text{ dBmV}$	CTB_{77}	—	-66	-65	dB
Noise Figure 550 MHz	NF	—	6.0	7.5	dB
DC Current ($V_{DC} = 24\text{ Vdc}$, $T_C = 30^\circ\text{C}$)	I_{DC}	380	415	440	mA



PACKAGE DIMENSIONS

查询"MHW6185B_D"供应商



NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	----	1.775	----	45.08
B	----	1.085	----	27.56
C	----	0.840	----	21.34
D	0.018	0.022	0.46	0.56
E	0.465	0.510	11.81	12.95
F	0.300	0.325	7.62	8.25
G	0.100 BSC		2.54 BSC	
J	0.156 BSC		3.96 BSC	
K	0.315	0.355	8.00	8.50
L	1.00 BSC		25.40 BSC	
N	0.165 BSC		4.19 BSC	
P	0.100 BSC		2.54 BSC	
Q	0.148	0.168	3.76	4.27
R	----	0.600	----	15.24
S	1.500 BSC		38.10 BSC	
U	0.200 BSC		5.08 BSC	
V	----	0.250	----	6.35
W	0.435	0.450	11.05	11.43
X	0.400 BSC		10.16 BSC	
Y	0.152	0.163	3.85	4.15

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

CASE 714Y-03
ISSUE D

Motorola reserves the right to make changes without further notice to any products herein. Motorola makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Motorola assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Motorola data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Motorola does not convey any license under its patent rights nor the rights of others. Motorola products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Motorola product could create a situation where personal injury or death may occur. Should Buyer purchase or use Motorola products for any such unintended or unauthorized application, Buyer shall indemnify and hold Motorola and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Motorola was negligent regarding the design or manufacture of the part. Motorola and  are registered trademarks of Motorola, Inc. Motorola, Inc. is an Equal Opportunity/Affirmative Action Employer.

Mfax is a trademark of Motorola, Inc.

How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution;
P.O. Box 5405, Denver, Colorado 80217. 1-303-675-2140 or 1-800-441-2447

JAPAN: Motorola Japan Ltd.; SPS, Technical Information Center, 3-20-1,
Minami-Azabu. Minato-ku, Tokyo 106-8573 Japan. 81-3-3440-3569

Customer Focus Center: 1-800-521-6274

Mfax™: RMFAX0@email.sps.mot.com - TOUCHTONE 1-602-244-6609
Motorola Fax Back System - US & Canada ONLY 1-800-774-1848
- http://sps.motorola.com/mfax/

ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; Silicon Harbour Centre,
2, Dai King Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong.
852-26668334

HOME PAGE: <http://motorola.com/sps/>



MHW6185B/D