

# RF HYBRID AMPLIFIER

**DESCRIPTION:**

The **MWA130** is Designed for broadband linear Applications up to 400 MHz Frequency Range.

**FEATURES:**

- $P_G = 14$  dB Typical
- $P_{1dB} = +18.0$  dBm Typical
- $50 \Omega$  Input/ Output Impedance

**MAXIMUM RATINGS**

$V_D$	5.5 V
$I_D$	60 mA
$P_{DISS}$	350 mW @ $T_C = 25^\circ C$
$RF_{INPUT}$	100 mW @ $T_C = 25^\circ C$
$T_C$	-65 to +125 °C
$T_{STG}$	-65 to +200 °C
$\theta_{JC}$	110 °C/W

**PACKAGE STYLE**

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.51	9.39	0.335	0.370
B	7.75	8.50	0.305	0.335
C	3.81	4.57	0.165	0.019
D	0.41	0.48	0.016	0.019
G	5.08 BSC		0.200 BSC	
H	0.72	0.86	0.028	0.034
J	0.74	0.14	0.029	0.045
K	12.70	--	0.500	--
M	45° BSC		45° BSC	
N	2.54 BSC		0.100 BSC	

1 = Input    2 = output    3 = gnd. (CASE)

**CHARACTERISTICS**  $T_A = 25^\circ C$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS	
$V_D$	$I_D = 60$ mA	5.0	5.8	6.5	V	
$G_P$	$V_D = 3.1$ V $I_D = 60$ mA $f = 1,00$ MHz	13	14		dB	
NF			7.0		dB	
$P_{1dB}$			10.0	$\pm 18$		dBm
$P_{R1}$				16.8		dB
VSWR				3:1	---	