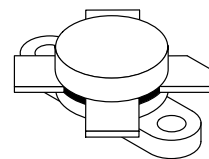
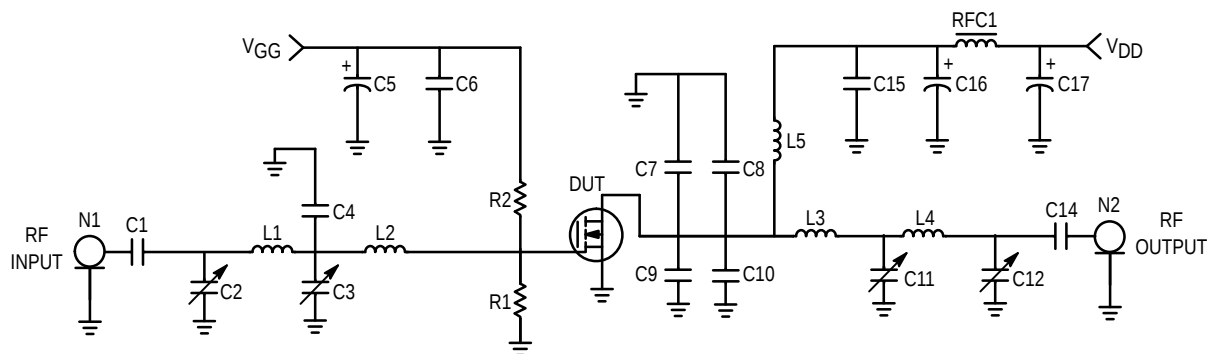


The RF MOSFET Line
RF Power
Field-Effect Transistor
N-Channel Enhancement-Mode

MRF255
PHOTOMASTER



CASE 211-11, STYLE 2



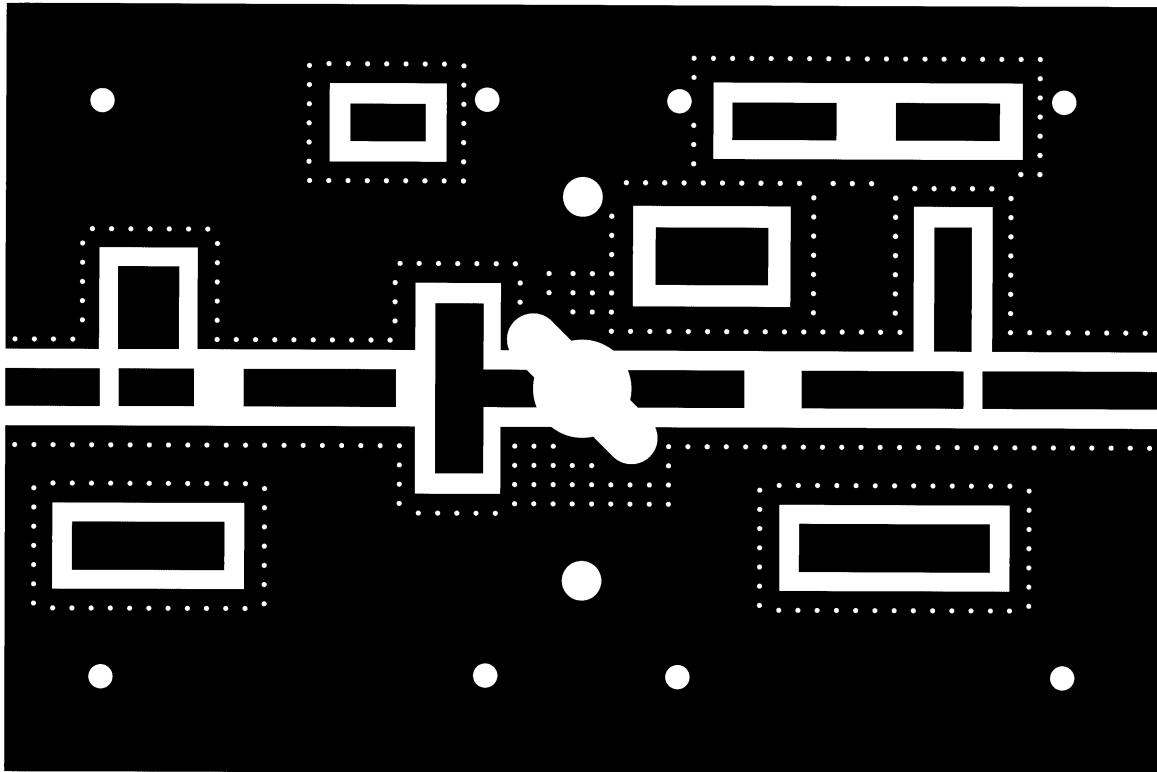
C1 — 470 pF, Chip Capacitor
C2, C3, C11, C12 — 20–200 pF, Trimmer, ARCO #464
C4 — 100 pF, Chip Capacitor
C5, C17 — 100 μ F, 15 V, Electrolytic
C6 — 0.001 μ F, Disc Ceramic
C7, C8, C9, C10 — 330 pF, Chip Capacitor
C14 — 1200 pF, ATC Chip Capacitor
C15 — 910 pF, 500 V, Dipped Mica
C16 — 47 μ F, 16 V, Electrolytic

L1 — 8 Turns, #20 AWG, 0.126" ID
L2 — 5 Turns, #18 AWG, 0.142" ID
L3 — 3 Turns, #20 AWG, 0.102" ID
L4 — 7 Turns, #24 AWG, 0.070" ID
L5 — 6.5 Turns, #18 AWG, 0.230" ID, 0.5" Long
N1, N2 — Type N Flange Mount
RFC1 — Ferroxcube VK-200-19/4B
R1 — 39 k Ω , 1/4 W Carbon
R2 — 150 Ω , 1/4 W Carbon
Board — G-10 .060"

Figure 1. 54 MHz Linear RF Test Circuit Electrical Schematic

Handling and Packaging — MOS devices are susceptible to damage from electrostatic charge. Reasonable precautions in handling and packaging MOS devices should be observed.





(SCALE: 1:1)

Figure 2. Photomaster for 54 MHz Narrowband Test Fixture

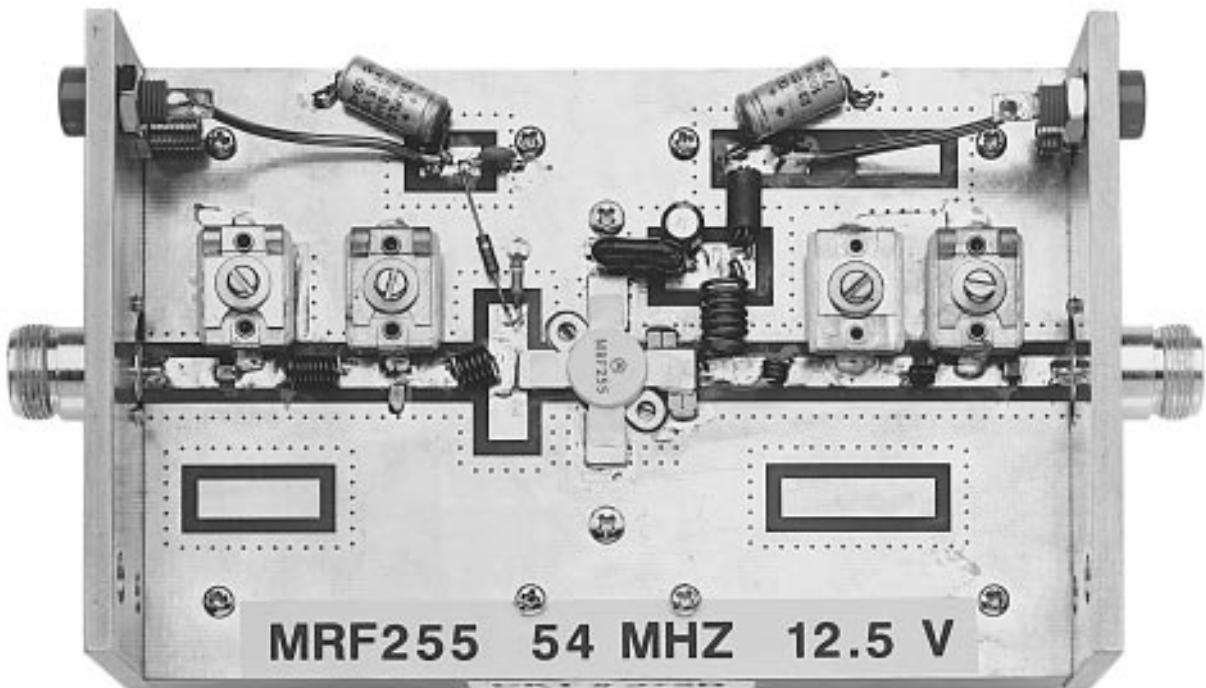
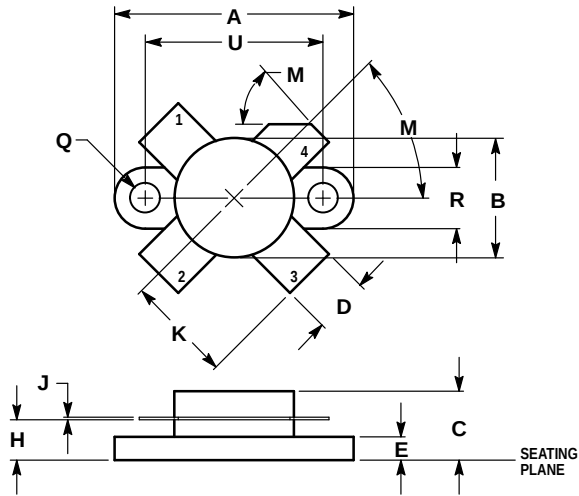


Figure 3. Test Fixture Photograph — MRF255

PACKAGE DIMENSIONS



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

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.960	0.990	24.39	25.14
B	0.465	0.510	11.82	12.95
C	0.229	0.275	5.82	6.98
D	0.216	0.235	5.49	5.96
E	0.084	0.110	2.14	2.79
H	0.144	0.178	3.66	4.52
J	0.003	0.007	0.08	0.17
K	0.435	—	11.05	—
M	45°NOM		45°NOM	
Q	0.115	0.130	2.93	3.30
R	0.246	0.255	6.25	6.47
U	0.720	0.730	18.29	18.54

- STYLE 2:
- PIN 1. SOURCE
 - 2. GATE
 - 3. SOURCE
 - 4. DRAIN

CASE 211-11
ISSUE N

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 can and do vary in different applications. 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.

How to reach us:

USA / EUROPE: Motorola Literature Distribution;
P.O. Box 20912; Phoenix, Arizona 85036. 1-800-441-2447

JAPAN: Nippon Motorola Ltd.; Tatsumi-SPD-JLDC, Toshikatsu Otsuki,
6F Seibu-Butsuryu-Center, 3-14-2 Tatsumi Koto-Ku, Tokyo 135, Japan. 03-3521-8315

MFAX: RMFAX0@email.sps.mot.com - TOUCHTONE (602) 244-6609
INTERNET: <http://Design-NET.com>

HONG KONG: Motorola Semiconductors H.K. Ltd.; 8B Tai Ping Industrial Park,
51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852-26629298



MOTOROLA



MRF255PHT/D

