

CASE 375-04, STYLE 2

The RF MOSFET Line 150W, 500MHz, 28V

Rev. V1

Designed primarily for wideband large-signal output and driver stages from 100 - 500 MHz.

N-Channel enhancement mode

Guaranteed performance @ 500 MHz, 28 Vdc Output power — 150 W

> Power gain — 10 dB (min.) Efficiency — 50% (min.)

- 100% tested for load mismatch at all phase angles with VSWR 30:1
- Overall lower capacitance @ 28 V

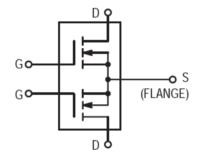
Ciss — 135 pF

Coss — 140 pF Crss — 17 pF

Simplified AVC, ALC and modulation

Typical data for power amplifiers in industrial and commercial applications:

- Typical performance @ 400 MHz, 28 Vdc Output power — 150 W Power gain — 12.5 dB Efficiency — 60%
- Typical performance @ 225 MHz, 28 Vdc Output power — 200 W Power gain — 15 dB Efficiency — 65%



Product Image

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	VDSS	65	Vdc
Drain–Gate Voltage (RGS = 1.0 M Ω)	V _{DGR}	65	Vdc
Gate-Source Voltage	V _{GS}	±40	Adc
Drain Current — Continuous	ΙD	26	Adc
Total Device Dissipation @ T _C = 25°C Derate above 25°C	PD	400 2.27	Watts W/°C
Storage Temperature Range	T _{stg}	-65 to +150	°C
Operating Junction Temperature	TJ	200	°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	R _{eJC}	0.44	°C/W

NOTE - CAUTION - MOS devices are susceptible to damage from electrostatic charge. Reasonable precautions in handling and packaging MOS devices should be observed.

MRF275G



The RF MOSFET Line 150W, 500MHz, 28V

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ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS (1)					
Drain–Source Breakdown Voltage (V _{GS} = 0, I _D = 50 mA)	V(BR)DSS	65	_	_	Vdc
Zero Gate Voltage Drain Current (VDS = 28 V, VGS = 0)	I _{DSS}	_	_	1	mA
Gate-Source Leakage Current (VGS = 20 V, VDS = 0)	IGSS	_	_	1	μА
ON CHARACTERISTICS (1)					
Gate Threshold Voltage (VDS = 10 V, ID = 100 mA)	VGS(th)	1.5	2.5	4.5	Vdc
Drain-Source On-Voltage (VGS = 10 V, ID = 5 A)	VDS(on)	0.5	0.9	1.5	Vdc
Forward Transconductance (V _{DS} = 10 V, I _D = 2.5 A)	9fs	3	3.75	_	mhos
DYNAMIC CHARACTERISTICS (1)					
Input Capacitance (VDS = 28 V, VGS = 0, f = 1 MHz)	C _{iss}	_	135	_	pF
Output Capacitance (V _{DS} = 28 V, V _{GS} = 0, f = 1 MHz)	Coss	_	140	_	pF
Reverse Transfer Capacitance (VDS = 28 V, VGS = 0, f = 1 MHz)	C _{rss}	_	17	_	pF
FUNCTIONAL CHARACTERISTICS (2) (Figure 1)					
Common Source Power Gain (VDD = 28 V, P _{out} = 150 W, f = 500 MHz, I _{DQ} = 2 x 100 mA)	G _{ps}	10	11.2	_	dB
Drain Efficiency (V _{DD} = 28 V, P _{out} = 150 W, f = 500 MHz, I _{DQ} = 2 x 100 mA)	η	50	55	_	%
Electrical Ruggedness (V _{DD} = 28 V, P _{out} = 150 W, f = 500 MHz, I _{DQ} = 2 x 100 mA, VSWR 30:1 at all Phase Angles)	Ψ	No Degradation in Output Power			

^{1.} Each side of device measured separately.

^{2.} Measured in push-pull configuration.



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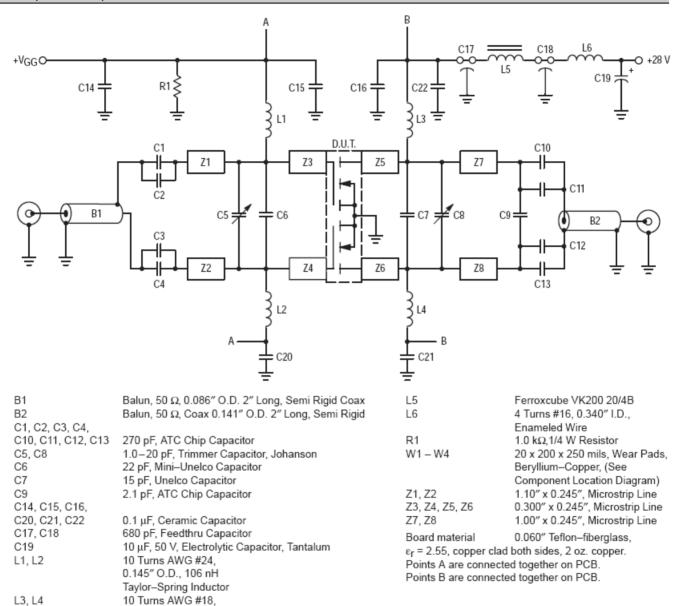


Figure 1. 500 MHz Test Circuit

0.340" I.D., Enameled Wire



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TYPICAL CHARACTERISTICS

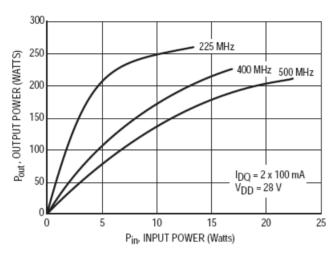


Figure 2. Output Power versus Input Power

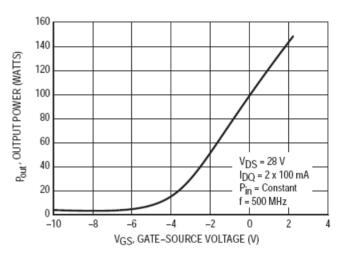


Figure 3. Output Power versus Gate Voltage

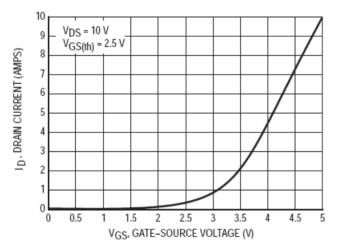


Figure 4. Drain Current versus Gate Voltage (Transfer Characteristics)

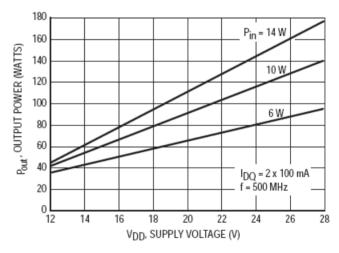


Figure 5. Output Power versus Supply Voltage



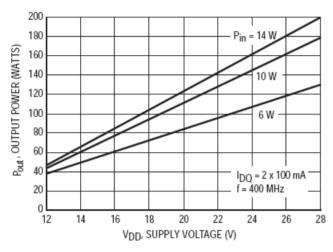


Figure 6. Output Power versus Supply Voltage

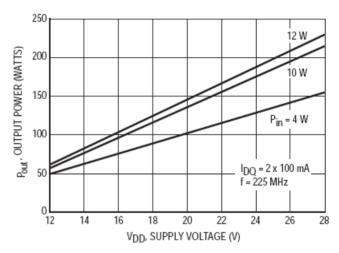
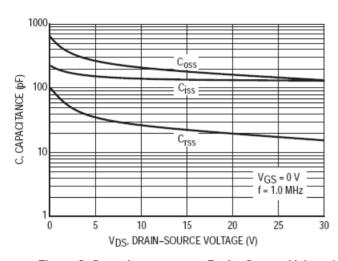


Figure 7. Output Power versus Supply Voltage



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TYPICAL CHARACTERISTICS



V_{GS}, GATE-SOURCE VOLTAGE (NORMALIZED) V_{DD} = 28 V 1.2 1.1 I_{D.} = 4 A 2 A 0.9 3 A 0.1 A 8.0 0 25 50 75 100 125 150 175 -25 TC CASE TEMPERATURE (°C)

Figure 8. Capacitance versus Drain–Source Voltage*

*Data shown applies only to one half of
device, MRF275G

Figure 9. Gate-Source Voltage versus Case Temperature

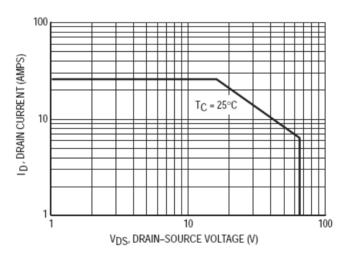
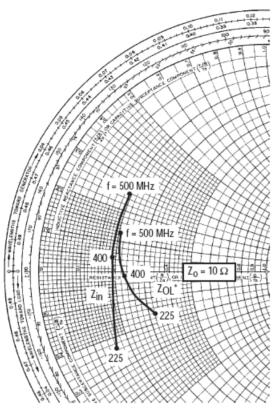


Figure 10. DC Safe Operating Area



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 $V_{DD} = 28 \text{ V}, I_{DQ} = 2 \text{ x } 100 \text{ mA}, P_{out} = 150 \text{ W}$

f (MHz)	Z _{in} Ohms	Z _{OL} * Ohms
225	1.6 – j2.30	3.2 – j1.50
400	1.9 + j0.48	2.3 – j0.19
500	1.9 + j2.60	2.0 + j1.30

Z_{OL}* = Conjugate of the optimum load impedance into which the device operates at a given output power, voltage and frequency.

Note: Input and output impedance values given are measured from gate to gate and drain to drain respectively.

Figure 11. Series Equivalent Input/Output Impedance



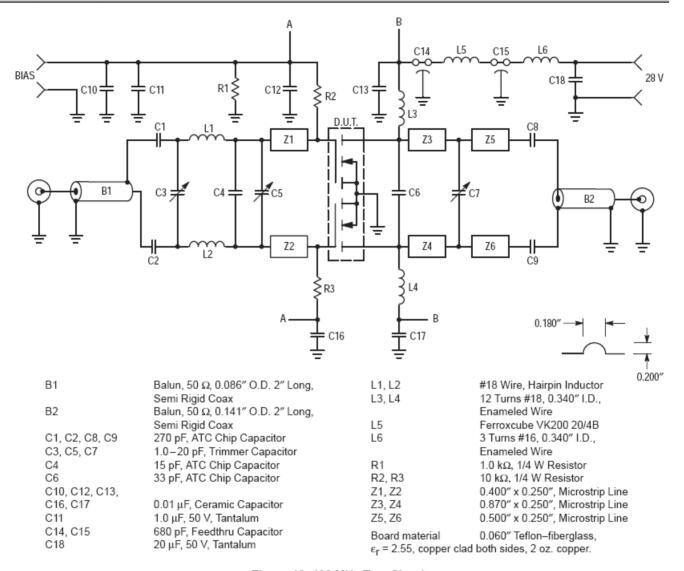
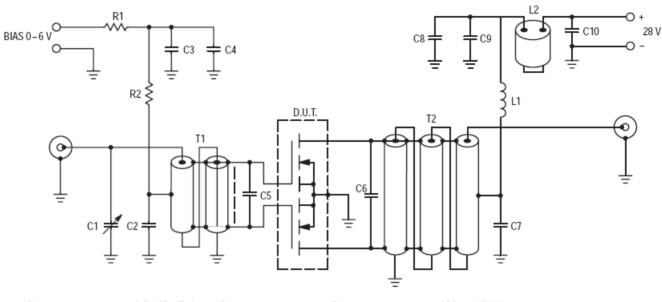


Figure 12. 400 MHz Test Circuit



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C1	8.0-60 pF, Arco 404	R1	100 Ω, 1/2 W
C2, C3, C7, C8	1000 pF, Chip Capacitor	R2	1.0 k Ω, 1/2 W
C4, C9	0.1 μF, Chip Capacitor	T1	4:1 Impedance Ratio, RF Transformer
C5	180 pF, Chip Capacitor		Can Be Made of 25 Ω, Semi Rigid Coax,
C6	100 pF and 130 pF,		47-52 Mils O.D.
	Chips in Parallel	T2	1:9 Impedance Ratio, RF Transformer.
C10	0.47 μF, Chip Capacitor, 1215 or		Can Be Made of 15–18 Ω, Semi Rigid
	Equivalent, Kemet		Coax, 62-90 Mils O.D.
L1	10 Turns AWG #16, 1/4" I.D.,	NOTE: For stah	ility, the input transformer T1 should be loaded
	Enamel Wire, Close Wound		ite toroids or beads to increase the common

Board material 062" fiberglass (G10),

Ferrite Beads of Suitable Material

for 1.5-2.0 µH Total Inductance

 $\varepsilon_{\Gamma} \cong 5$, Two sided, 1 oz. Copper.

L2

Unless otherwise noted, all chip capacitors are ATC Type 100 or Equivalent.

Figure 13. 225 MHz Test Circuit

mode inductance. For operation below 100 MHz. The

same is required for the output transformer.



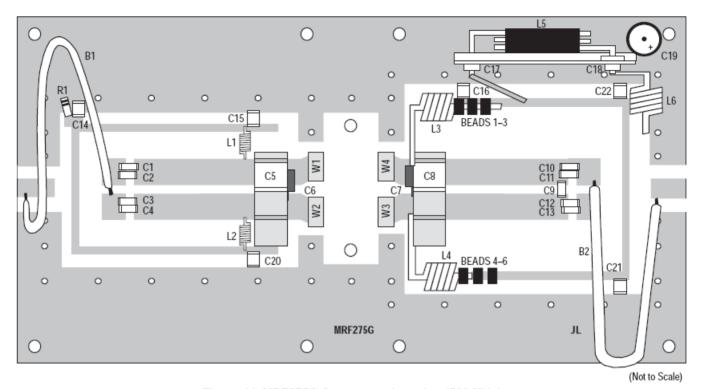


Figure 14. MRF275G Component Location (500 MHz)

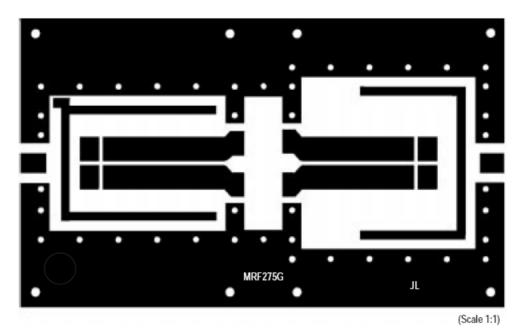


Figure 15. MRF275G Circuit Board Photo Master (500 MHz)



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NOTE: S-Parameter data represents measurements taken from one chip only.

Table 1. Common Source S-Parameters ($V_{DS} = 12 \text{ V}, I_D = 4.5 \text{ A}$)

f	S	S ₁₁		s ₂₁		\$ ₁₂		s ₂₂	
MHz	\$11	ф	\$ ₂₁	ф	S ₁₂	ф	S ₂₂	ф	
30	0.822	-172	6.34	91	0.027	3	0.946	-173	
40	0.846	-173	4.32	81	0.027	-6	0.859	-172	
50	0.842	-174	3.62	79	0.027	-8	0.863	-175	
60	0.838	-175	3.03	79	0.027	-5	0.923	-177	
70	0.836	-175	2.76	80	0.028	-3	1.010	-178	
80	0.841	-176	2.43	78	0.029	-4	1.080	-178	
90	0.849	-176	2.19	74	0.029	-7	1.150	-176	
100	0.857	-176	1.89	68	0.028	-13	1.110	-176	
110	0.864	-176	1.66	63	0.026	-19	1.050	-177	
120	0.868	-176	1.43	60	0.024	-19	0.958	-175	
130	0.871	-176	1.25	59	0.023	-19	0.905	-176	
140	0.874	-176	1.15	59	0.023	-17	0.914	-177	
150	0.876	-176	1.11	59	0.023	-16	0.969	-178	
160	0.880	-176	1.06	59	0.023	-17	1.060	-178	
170	0.885	-177	1.01	55	0.023	-18	1.130	-177	
180	0.891	-177	0.96	51	0.023	-23	1.190	-178	
190	0.896	-177	0.87	45	0.022	-26	1.140	-179	
200	0.900	-177	0.77	43	0.020	-26	1.050	-177	
210	0.904	-177	0.69	42	0.018	-25	0.958	-176	
220	0.907	-177	0.63	43	0.017	-23	0.924	-175	
230	0.909	-177	0.60	43	0.018	-23	0.981	-178	
240	0.912	-178	0.58	44	0.017	-22	0.981	-180	
250	0.915	-178	0.58	42	0.017	-20	1.040	-179	
260	0.918	-178	0.56	40	0.016	-20	1.150	-180	
270	0.922	-178	0.54	34	0.015	-24	1.170	179	
280	0.925	-179	0.49	32	0.014	-27	1.130	-180	
290	0.927	-179	0.43	28	0.013	-27	1.010	-178	
300	0.930	-179	0.41	30	0.013	-23	0.964	-178	
310	0.932	-179	0.40	32	0.013	-14	0.936	-178	
320	0.934	-180	0.39	31	0.012	-9	0.948	180	
330	0.936	-180	0.35	32	0.011	-9	1.000	180	
340	0.938	180	0.38	31	0.011	-12	1.070	178	
350	0.941	180	0.35	28	0.011	-12	1.100	180	
360	0.943	179	0.33	23	0.011	-10	1.120	-180	
370	0.944	179	0.30	21	0.011	-4	1.080	180	
380	0.945	179	0.29	21	0.009	1	1.020	180	
390	0.947	179	0.28	22	0.008	3	0.966	-180	
400	0.948	179	0.26	25	0.008	4	0.936	-179	
410	0.949	178	0.26	24	0.010	5	1.010	179	
420	0.951	178	0.25	25	0.010	11	1.040	178	



Table 1. Common Source S-Parameters (VDS = 12 V, ID = 4.5 A) continued

f	S.	11	S	21	S.	12	S	22
MHz	S ₁₁	ф	S ₂₁	ф	\$ ₁₂	ф	\$ ₂₂	ф
430	0.952	178	0.25	22	0.010	19	1.080	177
440	0.953	177	0.24	19	0.009	22	1.100	178
450	0.955	177	0.24	16	0.008	21	1.100	179
460	0.956	177	0.21	15	0.008	11	1.080	177
470	0.956	177	0.20	16	0.009	16	0.992	178
480	0.957	176	0.19	18	0.010	27	0.975	179
490	0.958	176	0.19	18	0.010	40	0.974	178
500	0.960	176	0.19	19	0.010	46	1.010	177
600	0.956	175	0.18	12	0.007	49	0.940	175
700	0.958	172	0.11	14	0.018	61	0.989	173
800	0.962	170	0.10	12	0.029	51	0.967	172
900	0.965	168	0.08	16	0.021	72	0.973	170
1000	0.964	165	0.07	12	0.021	57	1.010	168



Table 2. Common Source S-Parameters ($V_{DS} = 24 \text{ V}, I_D = 0.35 \text{ mA}$)

f	s	11	S	21	S.	12	S	22
MHz	S ₁₁	ф	\$ ₂₁	ф	S ₁₂	ф	\$ ₂₂	ф
30	0.829	-170	9.20	92	0.023	4	0.915	-171
40	0.858	-172	6.30	83	0.022	-4	0.834	-170
50	0.852	-173	5.28	80	0.023	-6	0.836	-174
60	0.846	-174	4.42	80	0.023	-3	0.892	-175
70	0.843	-175	4.01	81	0.024	-1	0.978	-177
80	0.847	-175	3.53	80	0.024	-2	1.050	-177
90	0.855	-175	3.18	76	0.024	-5	1.110	-176
100	0.865	-176	2.75	70	0.023	-10	1.080	-175
110	0.872	-176	2.43	65	0.022	-16	1.020	-176
120	0.874	-176	2.10	62	0.020	-16	0.932	-174
130	0.876	-176	1.84	61	0.019	-15	0.882	-175
140	0.878	-176	1.70	61	0.019	-14	0.889	-176
150	0.880	-176	1.63	61	0.019	-13	0.943	-177
160	0.883	-176	1.56	61	0.019	-13	1.030	-177
170	0.888	-177	1.49	58	0.019	-14	1.100	-176
180	0.894	-177	1.42	53	0.019	-18	1.160	-176
190	0.899	-177	1.29	47	0.018	-22	1.120	-177
200	0.902	-177	1.14	45	0.017	-24	1.030	-176
210	0.905	-177	1.02	44	0.015	-23	0.941	-175
220	0.907	-177	0.94	46	0.015	-19	0.903	-174
230	0.909	-178	0.89	45	0.015	-16	0.957	-177
240	0.912	-178	0.87	46	0.014	-15	0.961	-179
250	0.915	-178	0.86	44	0.014	-15	1.020	-178
260	0.918	-178	0.83	42	0.014	-17	1.120	-178
270	0.922	-178	0.80	36	0.013	-19	1.140	-180



Table 2. Common Source S-Parameters (V_{DS} = 24 V, I_{D} = 0.35 mA) continued

f	s	S ₁₁		21	S	s ₁₂		s ₂₂	
MHz	S ₁₁	ф	S ₂₁	ф	S ₁₂	ф	S ₂₂	ф	
280	0.925	-179	0.73	34	0.013	-20	1.110	-179	
290	0.927	-179	0.65	32	0.011	-18	0.994	-177	
300	0.929	-179	0.62	32	0.011	-15	0.948	-177	
310	0.931	-179	0.60	34	0.010	-9	0.916	-177	
320	0.932	-180	0.57	33	0.010	-6	0.934	-180	
330	0.934	-180	0.53	34	0.010	-4	0.985	-180	
340	0.937	180	0.56	33	0.010	-2	1.050	179	
350	0.939	180	0.53	30	0.010	0	1.090	-179	
360	0.941	179	0.50	25	0.010	0	1.110	-178	
370	0.943	179	0.46	23	0.009	0	1.080	-179	
380	0.944	179	0.44	22	0.009	2	1.010	-179	
390	0.945	179	0.41	24	0.008	8	0.956	-179	
400	0.946	178	0.40	27	0.008	16	0.926	-178	
410	0.947	178	0.38	26	0.009	20	1.000	-180	
420	0.949	178	0.38	26	0.009	22	1.040	179	
430	0.950	178	0.37	23	0.009	25	1.070	179	
440	0.952	177	0.36	21	0.009	26	1.090	180	
450	0.953	177	0.36	18	0.009	28	1.090	-180	
460	0.954	177	0.31	17	0.009	24	1.070	178	
470	0.955	177	0.30	17	0.009	29	0.990	179	
480	0.956	176	0.29	19	0.009	36	0.963	-179	
490	0.957	176	0.29	20	0.010	45	0.959	180	
500	0.958	176	0.28	20	0.010	50	0.996	178	
600	0.956	175	0.24	12	0.006	90	0.924	176	
700	0.959	172	0.16	13	0.019	63	0.986	174	
800	0.963	170	0.14	10	0.023	63	0.963	173	
900	0.968	168	0.12	11	0.026	84	0.967	171	
1000	0.969	165	0.09	7	0.025	70	1.000	169	



Table 3. Common Source S-Parameters (VDS = 28 V, ID = 0.39 mA)

f	S.	11	S	S ₂₁ S ₁₂		S	22	
MHz	\$ ₁₁	φ	\$ ₂₁	φ	S ₁₂	ф	S ₂₂	ф
30	0.834	-169	10.08	93	0.021	4	0.807	-171
40	0.863	-172	6.91	83	0.021	-4	0.828	-170
50	0.857	-173	5.79	81	0.021	-5	0.830	-173
60	0.851	-174	4.86	81	0.022	-3	0.883	-175
70	0.848	-175	4.41	82	0.022	-1	0.970	-177
80	0.852	-175	3.87	80	0.022	-1	1.040	-177
90	0.860	-175	3.49	77	0.023	-5	1.100	-176
100	0.869	-176	3.03	71	0.022	-9	1.070	-175
110	0.876	-176	2.68	66	0.021	-14	1.010	-176
120	0.878	-176	2.31	63	0.019	-14	0.923	-174
130	0.879	-176	2.03	62	0.018	-15	0.876	-175



Table 3. Common Source S-Parameters (V_{DS} = 28 V, I_{D} = 0.39 mA) continued

f	s	11	S	21	S	12	S	22
MHz	S ₁₁	ф	S ₂₁	ф	\$ ₁₂	ф	S ₂₂	ф
140	0.881	-176	1.87	62	0.018	-13	0.884	-176
150	0.883	-176	1.79	62	0.018	-11	0.934	-177
160	0.886	-177	1.72	62	0.018	-11	1.020	-177
170	0.890	-177	1.64	58	0.018	-12	1.090	-176
180	0.896	-177	1.56	54	0.018	-16	1.150	-176
190	0.901	-177	1.42	48	0.018	-21	1.110	-177
200	0.904	-177	1.26	46	0.017	-19	1.030	-176
210	0.907	-177	1.13	45	0.015	-14	0.938	-175
220	0.908	-177	1.03	47	0.013	-13	0.897	-174
230	0.910	-178	0.99	46	0.014	-15	0.948	-176
240	0.912	-178	0.96	47	0.014	-13	0.956	-179
250	0.916	-178	0.95	45	0.014	-10	1.020	-178
260	0.919	-178	0.93	42	0.013	-12	1.120	-178
270	0.922	-179	0.89	37	0.012	-15	1.140	-179
280	0.925	-179	0.81	35	0.012	-16	1.110	-178
290	0.927	-179	0.72	33	0.011	-16	0.988	-176
300	0.929	-179	0.69	33	0.011	-10	0.944	-177
310	0.931	-179	0.66	35	0.012	5	0.920	-177
320	0.933	-180	0.63	34	0.011	16	0.936	-180
330	0.934	-180	0.59	35	0.009	14	0.989	-180
340	0.937	180	0.62	34	0.009	3	1.050	180
350	0.939	180	0.59	31	0.010	4	1.080	-179
360	0.941	179	0.55	26	0.010	8	1.110	-178
370	0.943	179	0.51	24	0.009	11	1.070	-179
380	0.944	179	0.49	23	0.008	17	1.010	-178
390	0.945	179	0.46	25	0.008	24	0.949	-178
400	0.946	178	0.44	27	0.007	20	0.922	-178
410	0.947	178	0.43	26	0.010	19	0.995	-180
420	0.949	178	0.42	27	0.012	29	1.030	179
430	0.950	178	0.41	24	0.010	41	1.060	179
440	0.951	177	0.40	21	0.008	40	1.090	180
450	0.953	177	0.39	19	0.008	34	1.090	-180
460	0.953	177	0.35	17	0.009	26	1.070	178
470	0.954	177	0.33	18	0.010	30	0.983	179
480	0.955	176	0.32	19	0.012	43	0.964	-180
490	0.956	176	0.32	20	0.012	60	0.956	179
500	0.957	176	0.31	21	0.010	65	0.993	178
600	0.955	174	0.26	13	0.012	67	0.926	176
700	0.958	172	0.18	12	0.018	64	0.984	174
800	0.963	170	0.15	9	0.020	89	0.961	173
900	0.966	168	0.13	9	0.028	81	0.967	171
1000	0.968	165	0.10	6	0.033	73	0.997	169



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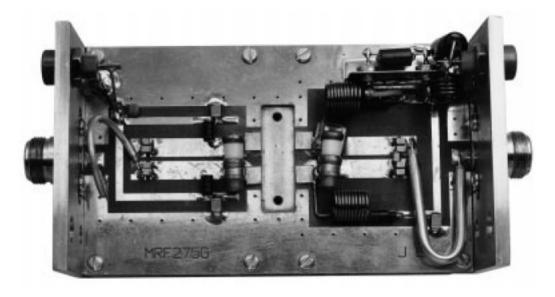


Figure 16. MRF275G Test Fixture

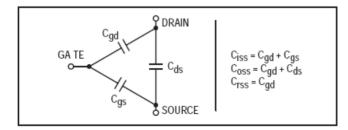
RF POWER MOSFET CONSIDERATIONS

MOSFET CAPACITANCES

The physical structure of a MOSFET results in capacitors between the terminals. The metal oxide gate structure determines the capacitors from gate—to—drain (Cgd), and gate—to—source (Cgs). The PN junction formed during the fabrication of the MOSFET results in a junction capacitance from drain—to—source (Cds).

These capacitances are characterized as input (Ciss), output (Coss) and reverse transfer (Crss) capacitances on datasheets. The relationships between the interterminal capacitances and those given on data sheets are shown below. The Ciss can be specified in two ways:

- Drain shorted to source and positive voltage at the gate.
- Positive voltage of the drain in respect to source and zero volts at the gate. In the latter case the numbers are lower. However, neither method represents the actual operating conditions in RF applications.



The Ciss given in the electrical characteristics table was measured using method 2 above. It should be noted that Ciss, Coss, Crss are measured at zero drain current and are provided for general information about the device. They are not RF design parameters and no attempt should be made to use them as such.

DRAIN CHARACTERISTICS

One figure of merit for a FET is its static resistance in the full—on condition. This on—resistance, VDS(on), occurs in the linear region of the output characteristic and is specified under specific test conditions for gate—source voltage and drain current. For MOSFETs, VDS(on) has a positive temperature coefficient and constitutes an important design consideration at high temperatures, because it contributes to the power dissipation within the device.

GATE CHARACTERISTICS

The gate of the MOSFET is a polysilicon material, and is electrically isolated from the source by a layer of oxide. The input resistance is very high — on the order of 109 ohms — resulting in a leakage current of a few nanoamperes. Gate control is achieved by applying a positive voltage slightly in excess of the gate—to—source threshold voltage, VGS(th).

Gate Voltage Rating — Never exceed the gate voltage rating (or any of the maximum ratings on the front page). Exceeding the rated VGS can result in permanent damage to the oxide layer in the gate region.



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Gate Termination — The gates of this device are essentially capacitors. Circuits that leave the gate open—circuited or floating should be avoided. These conditions can result in turn—on of the devices due to voltage build—up on the input capacitor due to leakage currents or pickup.

Gate Protection — These devices do not have an internalmonolithic zener diode from gate—to—source. If gate protection is required, an external zener diode is recommended. Using a resistor to keep the gate—to—source impedance low also helps damp transients and serves another important function. Voltage transients on the drain can be coupled to the gate through the parasitic gate—drain capacitance. If the gate—to—source impedance and the rate of voltage change on the drain are both high, then the signal coupled to the gate may be large enough to exceed the gate—threshold voltage and turn the device on.

HANDLING CONSIDERATIONS

When shipping, the devices should be transported only in antistatic bags or conductive foam. Upon removal from the packaging, careful handling procedures should be adhered to. Those handling the devices should wear grounding straps and devices not in the antistatic packaging should be kept in metal tote bins. MOSFETs should be handled by the case and not by the leads, and when testing the device, all leads should make good electrical contact before voltage is applied. As a final note, when placing the FET into the system it is designed for, soldering should be done with grounded equipment.

DESIGN CONSIDERATIONS

The MRF275G is a RF power N-channel enhancement

mode field-effect transistor (FETs) designed for HF, VHF and UHF power amplifier applications. M/A-COM RF MOS-FETs feature a vertical structure with a planar design. M/A-COM Application Note AN211A, FETs in Theory and Practice, is suggested reading for those not familiar with the construction and characteristics of FETs. The major advantages of RF power FETs include high gain, low noise, simple bias systems, relative immunity from thermal runaway, and the ability to withstand severely mismatched loads without suffering damage. Power output can be varied over a wide range with a low power dc control signal.

DC BIAS

The MRF275G is an enhancement mode FET and, therefore, does not conduct when drain voltage is applied. Drain current flows when a positive voltage is applied to the gate. RF power FETs require forward bias for optimum performance. The value of quiescent drain current (IDQ) is not critical for many applications. The MRF275G was characterized at IDQ = 100 mA, each side, which is the suggested minimum value of IDQ. For special applications such as linear amplification, IDQ may have to be selected to optimize the critical parameters. The gate is a dc open circuit and draws no current. Therefore, the gate bias circuit may be just a simple resistive divider network. Some applications may require a more elaborate bias system.

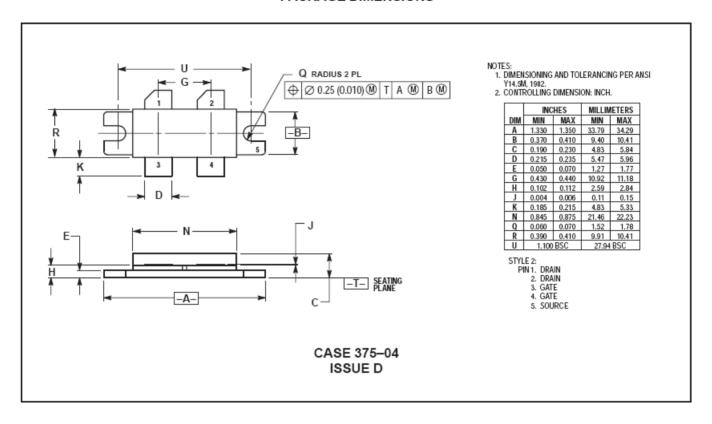
GAIN CONTROL

Power output of the MRF275G may be controlled from its rated value down to zero (negative gain) by varying the dc gate voltage. This feature facilitates the design of manual gain control, AGC/ALC and modulation systems.



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PACKAGE DIMENSIONS



MRF275G



The RF MOSFET Line 150W, 500MHz, 28V

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