

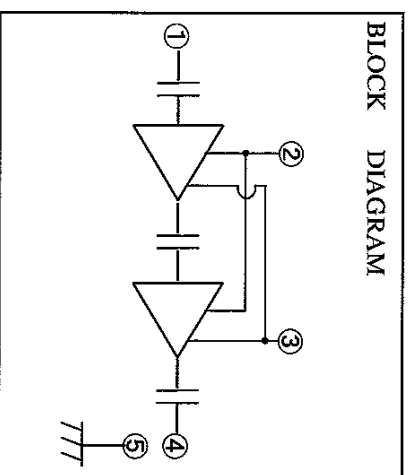
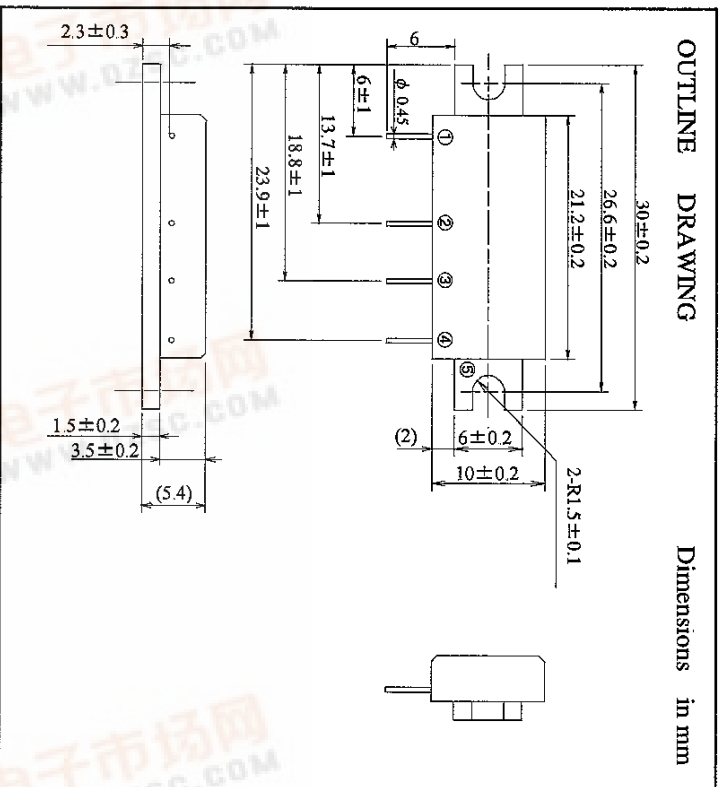
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

MITSUBISHI RF POWER MODULE

M68779H

Silicon MOS FET Power Amplifier, 240-270MHz 7.0W FM PORTABLE

捷多邦，专业PCB打样工厂，24小时加急出货



MAXIMUM RATINGS (Tc=25°C UNLESS OTHERWISE NOTED)			
SYMBOL	PARAMETER	CONDITIONS	RATINGS
V _{DD}	SUPPLY VOLTAGE	V _{GG} ≤ 3.5V, Z _g =Z _i =50Ω	9.2 V
V _{GG}	GATE BIAS VOLTAGE		4 V
P _{in}	INPUT POWER	f=240-270MHz, Z _g =Z _i =50Ω	50 mW
P _o	OUTPUT POWER	f=240-270MHz, Z _g =Z _i =50Ω	10 W
T _c (op)	OPERATION CASE TEMPERATURE	f=240-270MHz, Z _g =Z _i =50Ω	-30 to +100 °C
T _{stg}	STORAGE TEMPERATURE		-40 to +110 °C

Note: Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc=25°C, Zg=Zi=50Ω UNLESS OTHERWISE NOTED)			
SYMBOL	PARAMETER	CONDITIONS	LIMITS
f	FREQUENCY RANGE		240 270 MHz
P _o	OUTPUT POWER	V _{DD} =7.2V, V _{GG} =3.5V, P _{in} =30mW	7.0 W
η _t	TOTAL EFFICIENCY	P _o =6.0W, (V _{GG} =adj.), P _{in} =30mW	44 %
2f _o	2nd HARMONIC	V _{DD} =7.2V	-25 dBc
ρ _{in}	INPUT VSWR	Z _g =50Ω, V _{DD} =6/7.2/9.2V, LOAD VSWR ≤ 4:1 P _{in} =20/30/50mW, P _o <8W	No parasitic oscillation
	Stability	V _{DD} =9.2V, P _{in} =30mW, P _o =7.0W (V _{GG} ADJUST), ρ _L =20:1	No degradation or destroy
	LOAD VSWR TOLERANCE		-

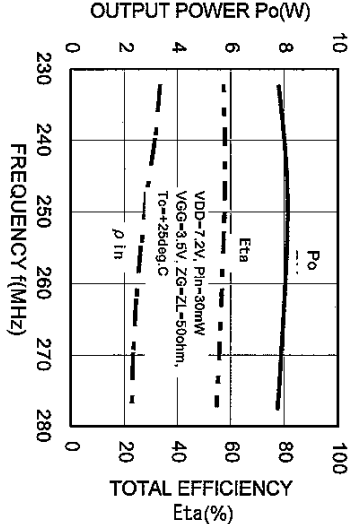
ABOVE PARAMETERS, RATINGS, LIMITS AND CONDITIONS ARE SUBJECT TO CHANGE.

Keep safety first in your circuit designs!

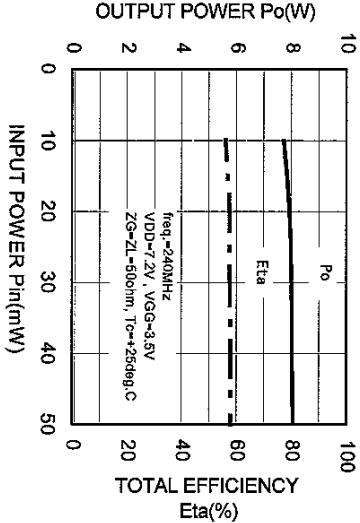
Mitsubishi Electric Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.

TYPICAL PERFORMANCE DATA

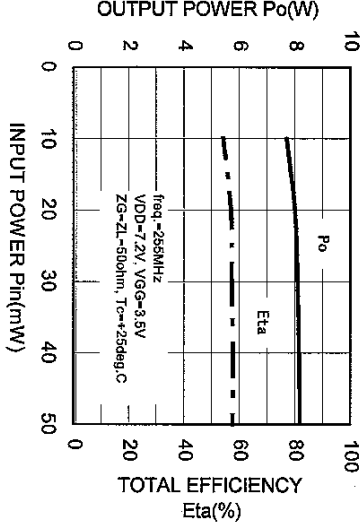
OUTPUT POWER, TOTAL EFFICIENCY,
INPUT VSWR VS. FREQUENCY



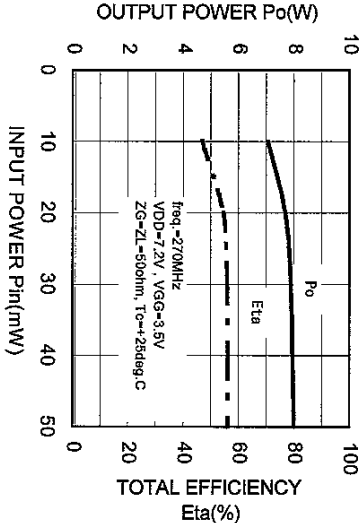
OUTPUT POWER, EFFICIENCY
VS. INPUT POWER



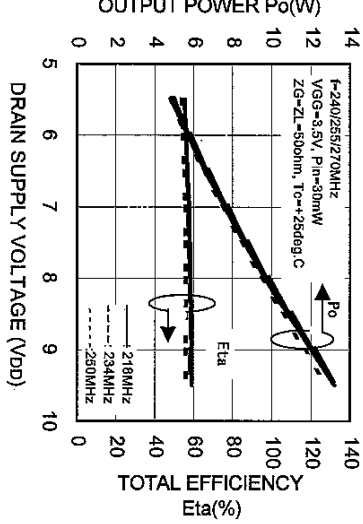
OUTPUT POWER, EFFICIENCY
VS. INPUT POWER



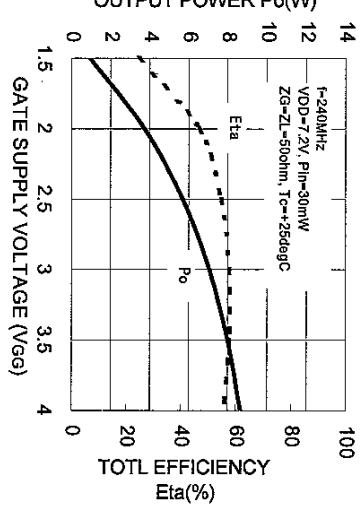
OUTPUT POWER, EFFICIENCY
VS. INPUT POWER



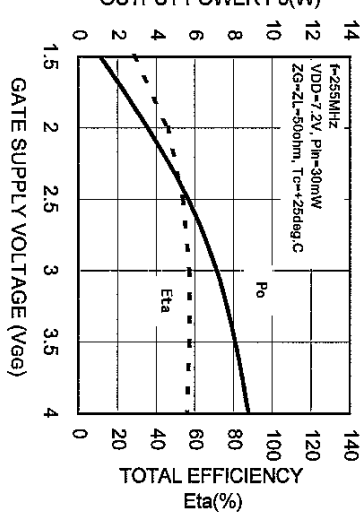
OUTPUT POWER, EFFICIENCY
VS. DRAIN SUPPLY VOLTAGE



OUTPUT POWER, EFFICIENCY
VS. GATE SUPPLY VOLTAGE



OUTPUT POWER, EFFICIENCY
VS. GATE SUPPLY VOLTAGE



OUTPUT POWER, EFFICIENCY
VS. GATE SUPPLY VOLTAGE

