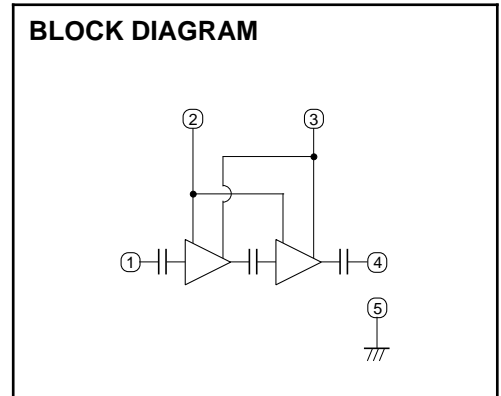
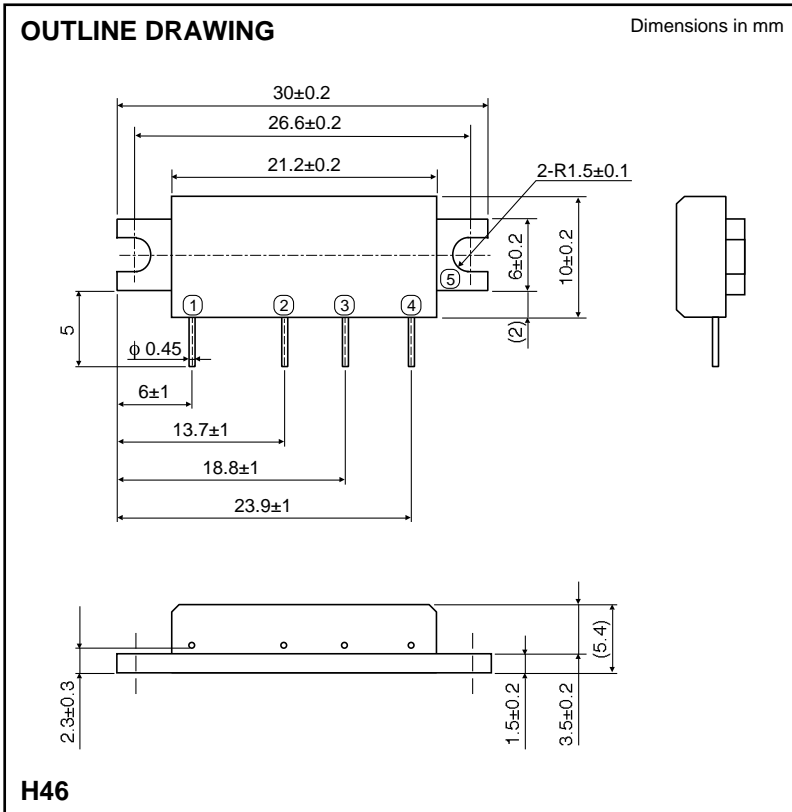


MITSUBISHI RF POWER MODULE  
**M68757H**

SILICON MOS FET POWER AMPLIFIER, 896-941MHz, 3W FM PORTABLE RADIO



- PIN:  
 ① Pin : RF INPUT  
 ② V<sub>GG</sub> : GATE BIAS SUPPLY  
 ③ V<sub>DD</sub> : DRAIN BIAS SUPPLY  
 ④ P<sub>O</sub> : RF OUTPUT  
 ⑤ GND: FIN

**ABSOLUTE MAXIMUM RATINGS** (T<sub>c</sub>=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V <sub>DD</sub>	Supply voltage	V <sub>GG</sub> 3.5V, Z <sub>G</sub> =Z <sub>L</sub> =50	9.2	V
V <sub>GG</sub>	Gate bias voltage		4	V
P <sub>in</sub>	Input power	f=896-941MHz, Z <sub>G</sub> =Z <sub>L</sub> =50	70	mW
P <sub>O</sub>	Output power	f=896-941MHz, Z <sub>G</sub> =Z <sub>L</sub> =50	5	W
T <sub>C (OP)</sub>	Operation case temperature	f=896-941MHz, Z <sub>G</sub> =Z <sub>L</sub> =50	-30 to +100	°C
T <sub>stg</sub>	Storage temperature		-40 to +100	°C

Note. Above parameters are guaranteed independently.

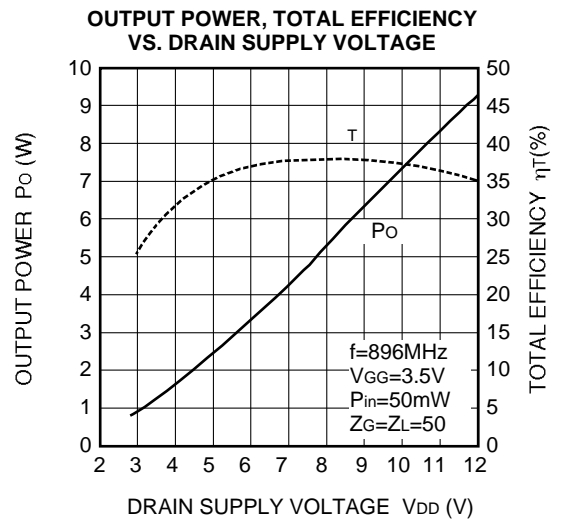
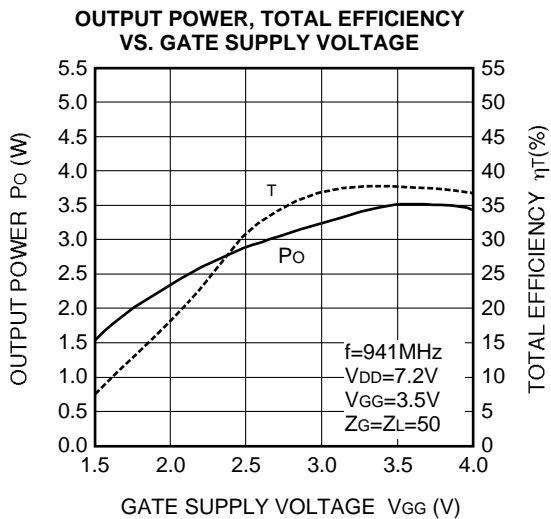
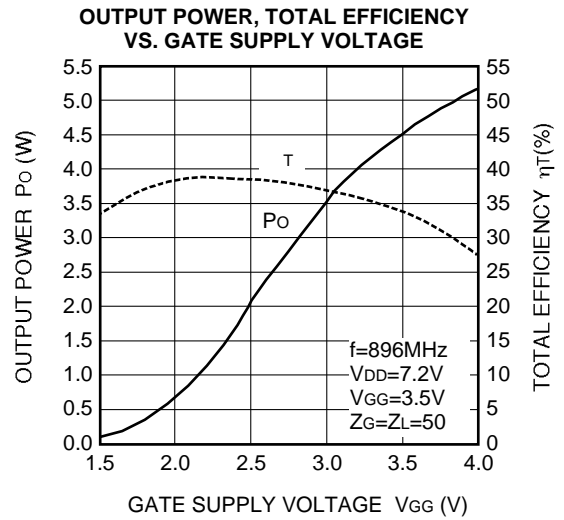
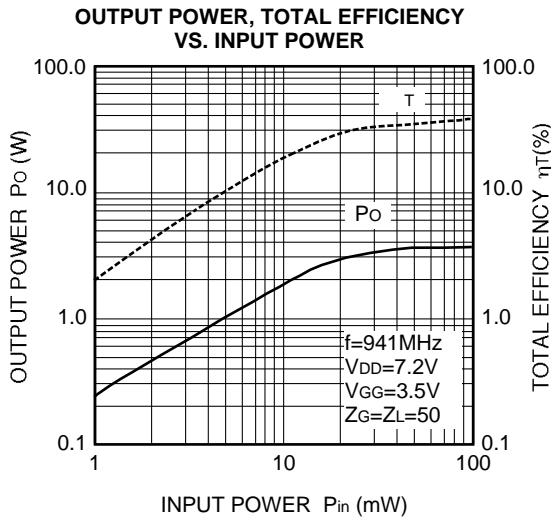
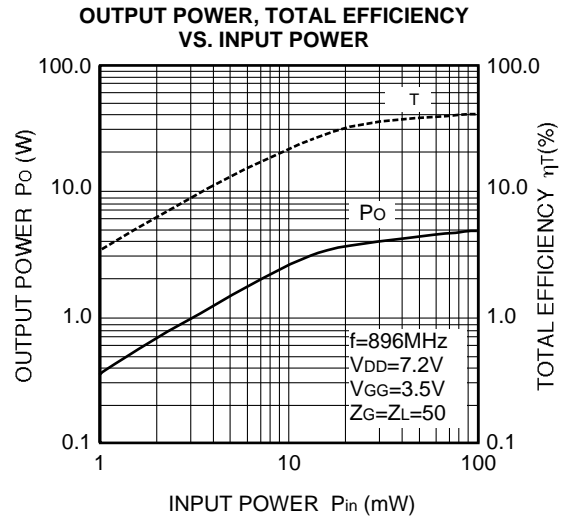
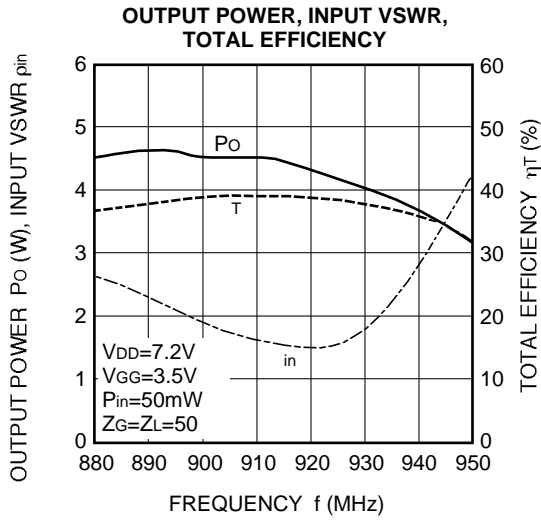
**ELECTRICAL CHARACTERISTICS** (T<sub>c</sub>=25°C, Z<sub>G</sub>=Z<sub>L</sub>=50 unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	-	896	941	MHz
P <sub>O</sub>	Output power	V <sub>DD</sub> =7.2V, V <sub>GG</sub> =3.5V, P <sub>in</sub> =50mW	3		W
η	Total efficiency		30		%
2f <sub>o</sub>	2nd. harmonic			-28	dBc
in	Input VSWR			4	—
—	Stability	Z <sub>G</sub> =Z <sub>L</sub> =50, V <sub>DD</sub> =5-9.2V, Load VSWR <4:1	No parasitic oscillation		—
—	Load VSWR tolerance	V <sub>DD</sub> =9V, P <sub>in</sub> =50mW, P <sub>O</sub> =3W (V <sub>GG</sub> Adjust), Z <sub>L</sub> =20:1	No degradation or destroy		—

Note. Above parameters, ratings, limits and test conditions are subject to change.

**SILICON MOS FET POWER AMPLIFIER, 896-941MHz, 3W FM PORTABLE RADIO**

**TYPICAL PERFORMANCE DATA**



**SILICON MOS FET POWER AMPLIFIER, 896-941MHz, 3W FM PORTABLE RADIO**

