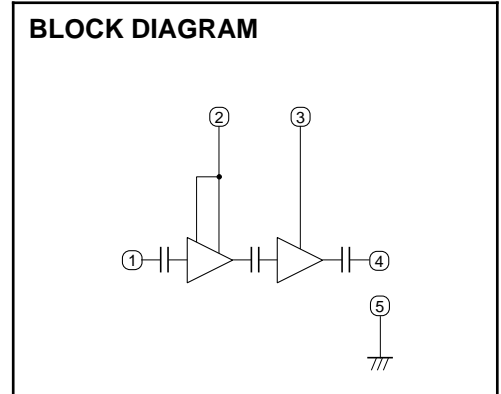
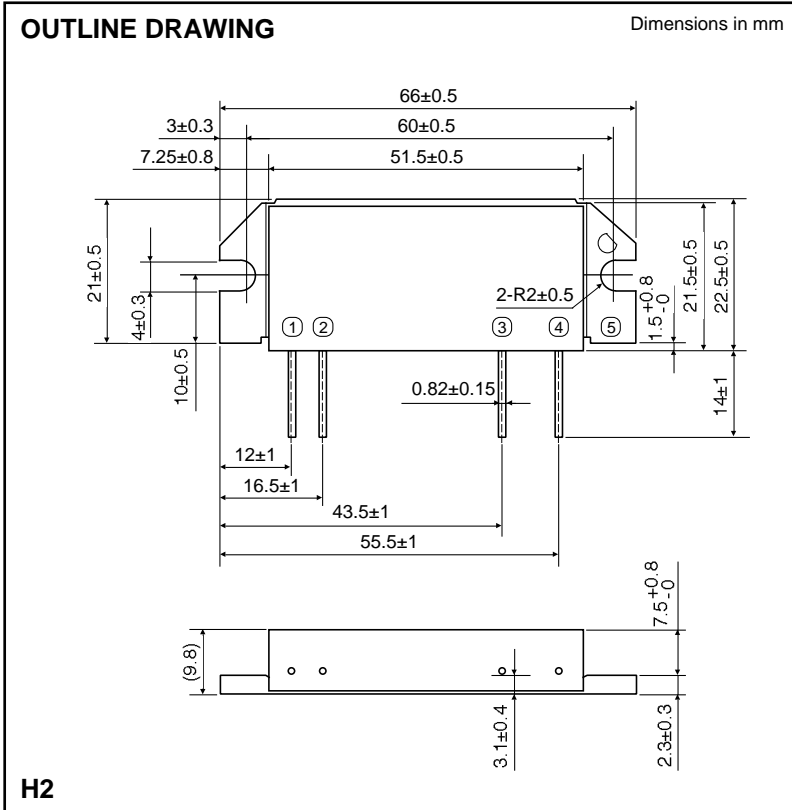


MITSUBISHI RF POWER MODULE  
**M67746**

144-148MHz, 12.5V, 60W, FM MOBILE RADIO



- PIN:
- ① Pin : RF INPUT
  - ② Vcc1: 1st. DC SUPPLY
  - ③ Vcc2: 2nd. DC SUPPLY
  - ④ PO : RF OUTPUT
  - ⑤ GND: FIN

**ABSOLUTE MAXIMUM RATINGS** (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	ZG=ZL=50	17	V
Icc	Total current	ZG=ZL=50	20	A
P <sub>in</sub> (max)	Input power	ZG=ZL=50 , Vcc1 12.5V	600	mW
P <sub>O</sub> (max)	Output power	ZG=ZL=50 , Vcc1 12.5V	70	W
T <sub>C</sub> (OP)	Operation case temperature	ZG=ZL=50 , Vcc1 12.5V	-30 to +110	°C
T <sub>stg</sub>	Storage temperature		-40 to +110	°C

Note. Above parameters are guaranteed independently.

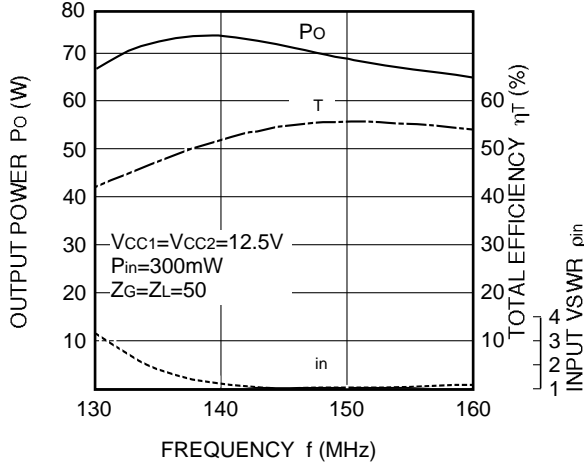
**ELECTRICAL CHARACTERISTICS** (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit	
			Min	Max		
f	Frequency range		144	148	MHz	
P <sub>O</sub>	Output power	Vcc1=Vcc2=12.5V, P <sub>in</sub> =300mW ZG=ZL=50	60		W	
η	Total efficiency		50		%	
2f <sub>o</sub>	2nd. harmonic			-30		dBc
3f <sub>o</sub>	3rd. harmonic			-30		dBc
in	Input VSWR				3	-
-	Load VSWR tolerance	Vcc1=Vcc2=15.2V P <sub>O</sub> =60W (P <sub>in</sub> :controlled), ZG=50 Load VSWR=8:1 (All phase)	No degradation or destroy		-	

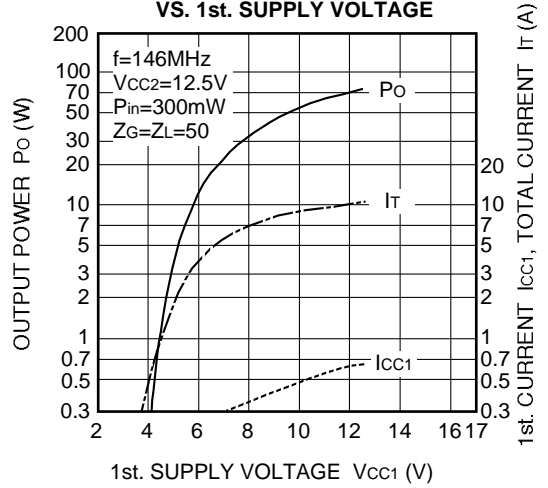
Note. Above parameters, ratings, limits and test conditions are subject to change.

**TYPICAL PERFORMANCE DATA**

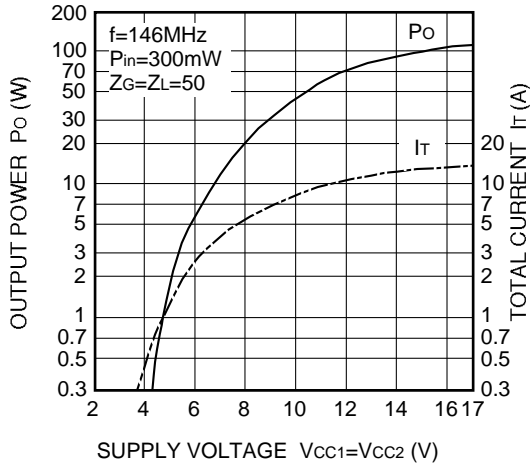
**OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY**



**OUTPUT POWER, 1st. CURRENT, TOTAL CURRENT VS. 1st. SUPPLY VOLTAGE**



**OUTPUT POWER, TOTAL CURRENT VS. SUPPLY VOLTAGE**



**OUTPUT POWER, TOTAL CURRENT, 1st. CURRENT VS. INPUT POWER**

