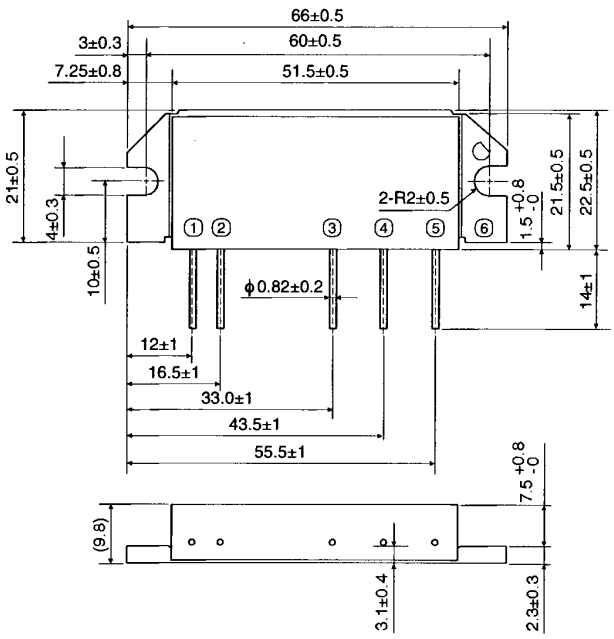
M68762SH

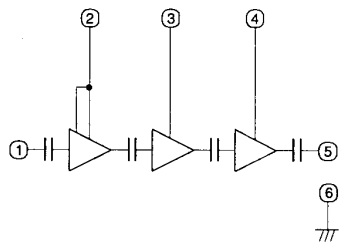
470-512MHz, 12.5V, 30W, FM MOBILE RADIO

OUTLINE DRAWING

Dimensions in mm



BLOCK DIAGRAM



PIN:
①Pin : RF INPUT
②Vcc1: 1st. DC SUPPLY
③Vcc2: 2nd. DC SUPPLY
④Vcc3: 3rd. DC SUPPLY
⑤Po : RF OUTPUT
⑥GND: FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	ZG=ZL=50Ω	17	V
Icc	Total current	ZG=ZL=50Ω	10	A
Pin (max)	Input power	ZG=ZL=50Ω, Vcc1≤12.5V	600	mW
Po (max)	Output power	ZG=ZL=50Ω, Vcc1≤12.5V	40	W
Tc (OP)	Operation case temperature	ZG=ZL=50Ω, Vcc1≤12.5V	-30 to +110	°C
Tstg	Storage temperature		-40 to +110	°C

Note. Above each maximum ratings are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		470	512	MHz
Po	Output power	Vcc=12.5V, Pin=300mW, ZG=ZL=50Ω	30		W
ηT	Total efficiency		35		%
2fo	2nd. harmonic			-30	dBc
3fo	3rd. harmonic			-30	dBc
ρin	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc=15.2V, Po=30W (Pin:Controlled), ZG=50Ω, Load VSWR=20:1 (All phase)	No degradation or destroy		-

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