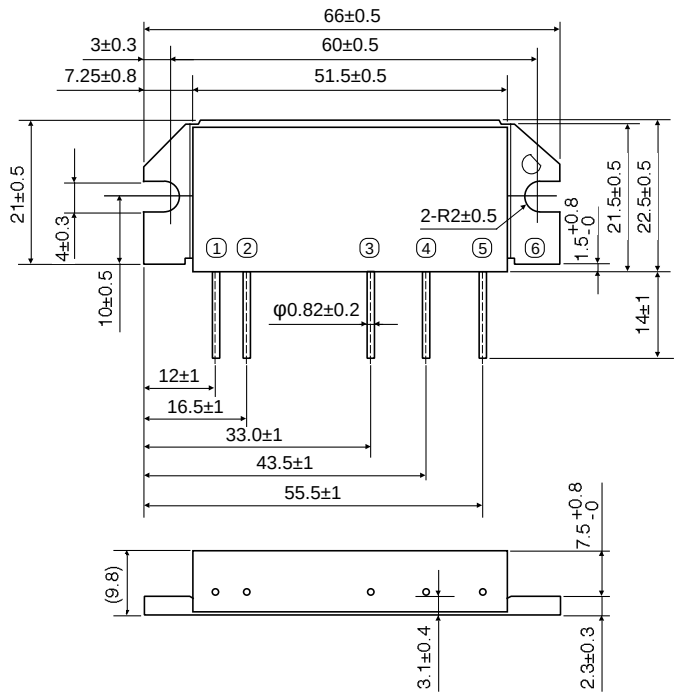
M68769L

400-450MHz, 12.5V, 45W, FM MOBILE RADIO

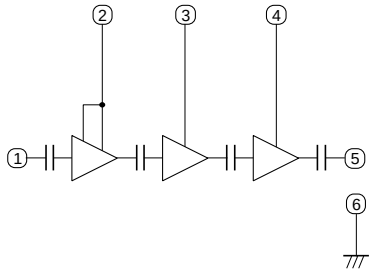
OUTLINE DRAWING

Dimensions in mm



H3

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	15	A
Pin (max)	Input power	ZG=ZL=50Ω, VCC1≤12.5V	600	mW
PO (max)	Output power	ZG=ZL=50Ω, VCC1≤12.5V	60	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 parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		400	450	MHz
PO	Output power	VCC=12.5V, Pin=300mW, ZG=ZL=50Ω	45		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=45W(Pin:controlled) ZG=50Ω, Load VSWR=8:1 (All phase)	No degradation or destroy		-

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