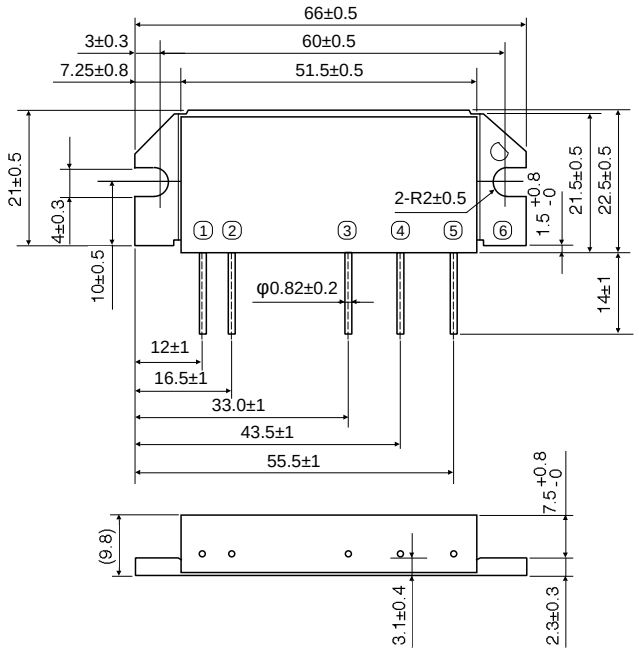
440-470MHz, 12.5V, 50W, FM MOBILE RADIO

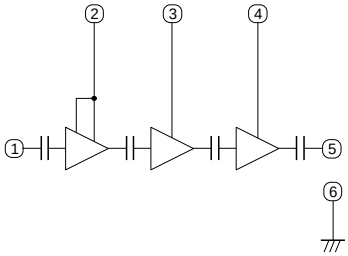
OUTLINE DRAWING

Dimensions in mm



H3

BLOCK DIAGRAM



PIN:
① Pin : RF INPUT
② VCC1: 1st. DC SUPPLY
③ VCC2: 2nd. DC SUPPLY
④ VCC3: 3rd. DC SUPPLY
⑤ PO : RF OUTPUT
⑥ GND: 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	20	A
Pin (max)	Input power	ZG=ZL=50Ω, VCC1≤12.5V	600	mW
PO (max)	Output power	ZG=ZL=50Ω, VCC1≤12.5V	70	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		440	470	MHz
PO	Output power	VCC=12.5V, Pin=400mW, ZG=ZL=50Ω	50		W
ηT	Total efficiency		35		%
2fO	2nd. harmonic			-30	dBc
3fO	3rd. harmonic			-30	dBc
ρin	Input VSWR			3	-
-	Load VSWR tolerance	VCC=15.2V, PO=50W (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.

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