

Features

Frequency range: 2.0-18.0GHz

Completed on the thin film process line, High reliability

50ohm Impedance, Voltage regulator chips integrated internally

Standard hermetically sealed package, SMA removable

Operating Temperature: -55 to +85°C

Electrical Specification (50ohm Test System, T_A= -55 to +85°C)

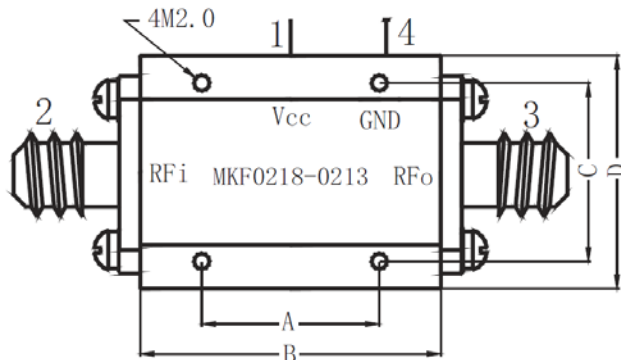
Parameter	Symbol	Specification		Unit
		Nominal	Typical	
Center Frequency	f _L -f _H	2.0-18.0		GHz
Gain	G _p	28 min.	30	dB
Gain Flatness	ΔG _p	±2.0	±1.5	dB
Noise Figure	F _n	5.0 max. Δ	4.5	dB
Input VSWR	VSWR _i	2.5: 1 max. Δ	2.0:1	/
Output VSWR	VSWR _o	2.5: 1 max. Δ	1.8:1	/
Output power	P-1	13.0 min. Δ	14.0	dBm
Operating Voltage /Current	V _{dd} /I _{dd}	12/170		V/mA
Package Type		3C		

Remarks: 1. The specifications with Δ are achieved at room temperature

Absolute Ratings

Voltage	+14VDC
Max. Input power	+10dBm
Max. Storage Temperature	+125°C

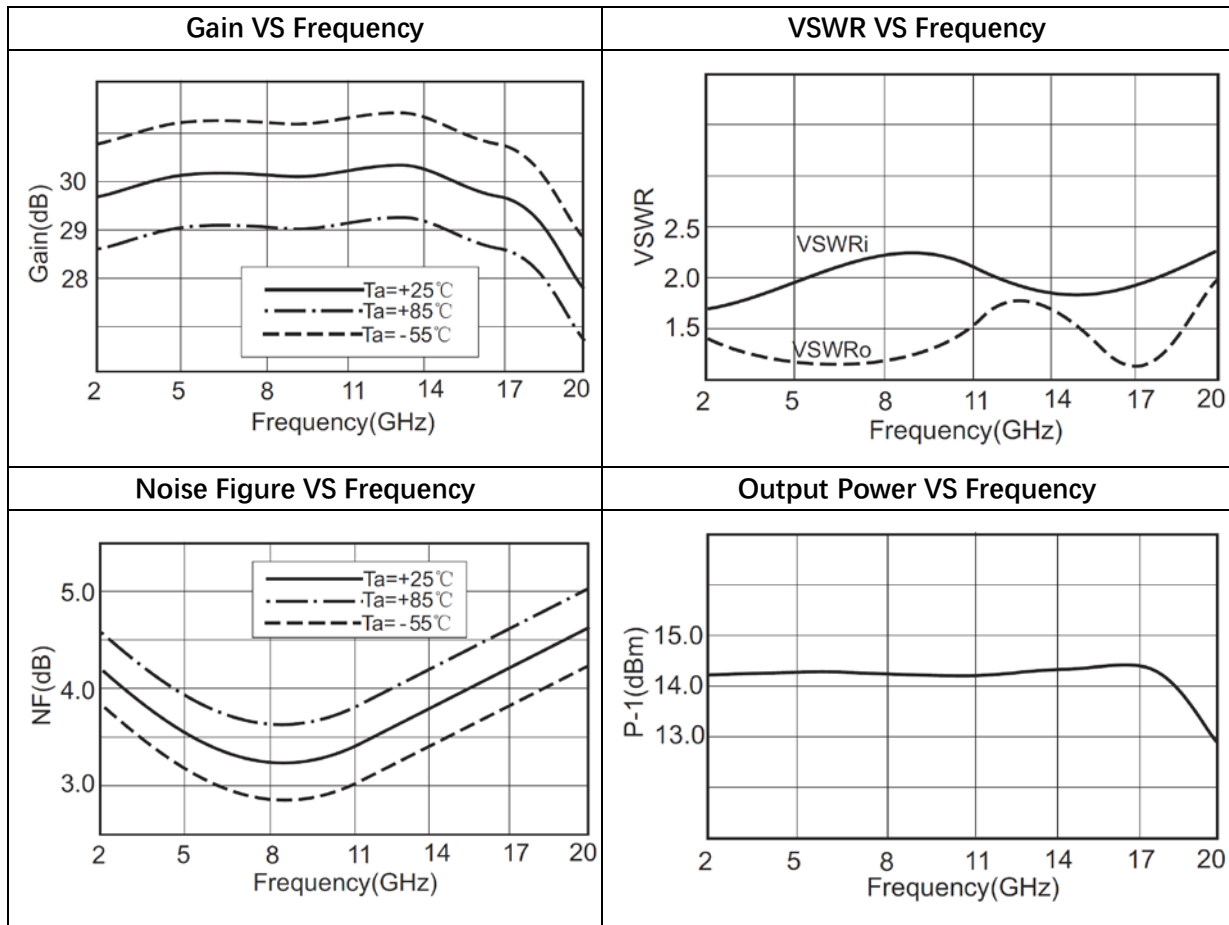
Outline Drawing



Unit: mm

Type Symbol	2C	3C	4C
A	9.0	13	16
B	17	22	27
C	13.0	13.0	13.0
D	17	17	17
H (Height)	8	8	8

Test Curves



Application Instructions

1. Circuits should be connected according to the right diagram.
2. DC blocking capacitors are required at input/output ports.
3. There are Voltage regulator chips integrated internally.
4. Filtering capacitors: $C_1=3.3-22\mu\text{F}$, $C_2=1000\text{pF}$
5. Clean the bottom of this amplifier during assembling, and keep good grounding.

