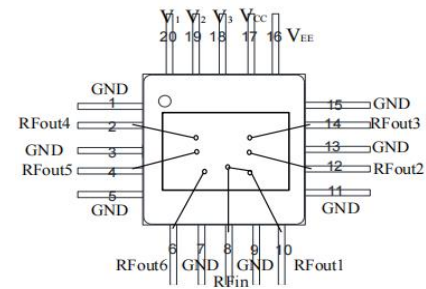


Performance

- Frequency: DC~2.5GHz
- Insertion loss: 1.6dB
- Isolation: 45dB
- Switch Time: 10ns
- Control: 3 Bits TTL Control
- Handling Power: 20dBm
- Package Form: Metal ceramic SMT package Q20-01H

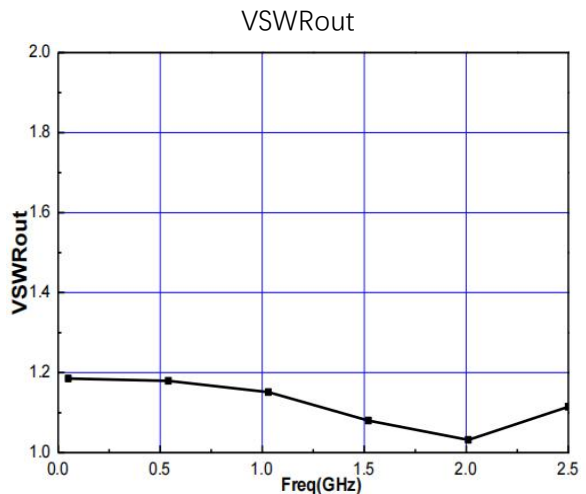
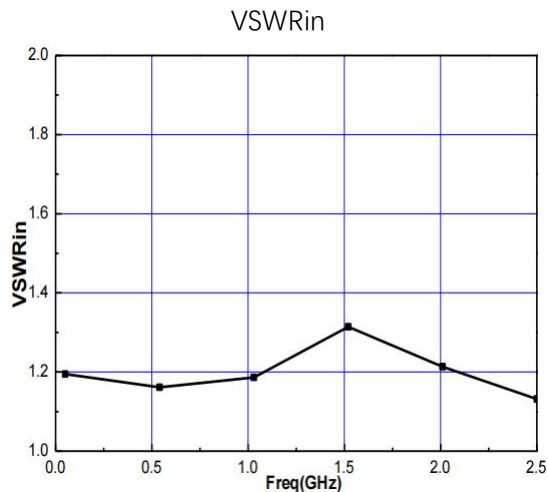
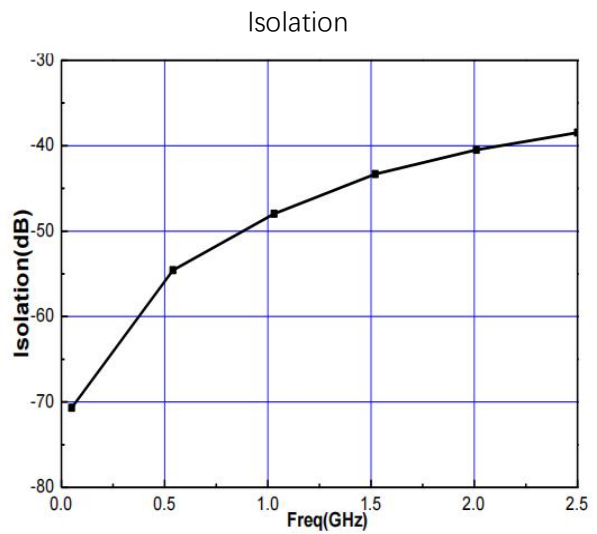
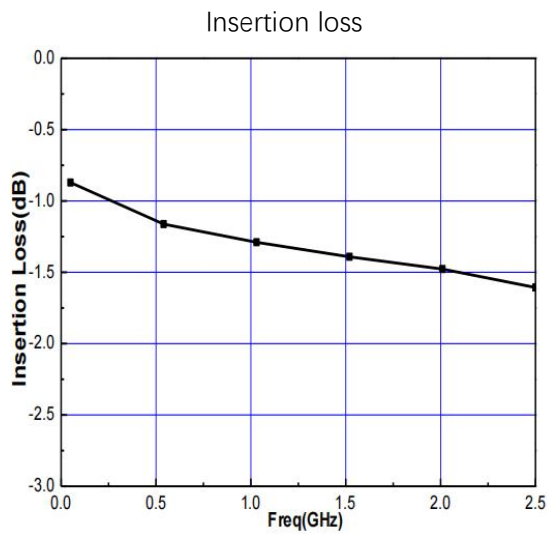
Function Diagram



Electrical Specifications (TA=25°C, F: 0.05~2.5GHz)

Symbol	Parameter	Min	Typical	Max	Unit
Li	Insertion Loss	-	1.6	2.0	dB
ISO	Isolation	35	38	-	dB
VSWR	VSWR in/out	-	1.3	1.6	-

Test Curves



Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
V1	TTL Control Voltage	6V	
V _{EE}	-5V Supply Voltage	-7V	
V _{CC}	+5V Supply Voltage	+7V	
P _{CW}	Input Signal Power(CW)	20dBm	
Tch	Channel Temperature	150°C	Input Output Ports/Power supply port
ESD	Electro-Static Discharge	500V/1000V	
Tstg	Storage Temperature	-55~125°C	

Exceeding any one or combination of these limits may cause permanent damage.

Truth Table

Pin	Pin 19	Pin 18	Pin 17	Pin 14	Pin 10	Pin 12	Pin 4	Pin 6	Pin 2
Symbol	V1	V2	V3	RFout3	RFout1	RFout2	RFout5	RFout6	RFout4
	0	0	0	off	off	off	off	off	on
	1	0	0	off	off	off	off	on	off
	0	1	0	off	off	off	on	off	off
	1	1	0	off	off	on	off	off	off

"1" is TTL High level, "0" is TTL Low level, while operating recommend to apply 0.1~5uF decoupling capacitor s at VEE, Vcc, and make sure TTL level is not exceeding Vcc.

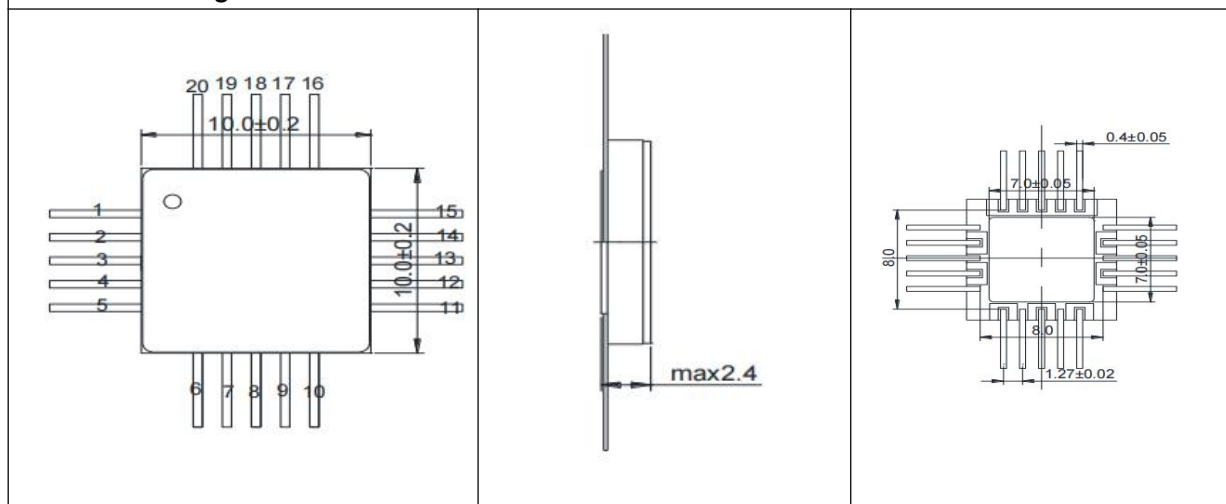
Pads Definition

Pad	Description
RFin	RF Signal input, connect to 50ohm system, no need block capacitor.
RFout	RF Signal output, connect to 50ohm system, no need block capacitor.
V _{EE} , V _{CC}	Supply Voltage
V1,V2	TTL voltage control, can control ON/OFF of RF output ports.
GND	Bottom must connect to RF and DC ground

No	Symbol	Description
1	GND	Ground
2	RFout4	RF signal input port 4
3	GND	Ground
4	RFout5	RF signal input port 5
5	GND	Ground
6	RFout6	RF signal input port 6
7	GND	Ground
8	RFin	RF signal input
9	GND	Ground
10	RFout1	RF signal input port 1

11	GND	Ground
12	RFout2	RF signal input port 2
13	GND	Ground
14	RFout3	RF signal input port 3
15	GND	Ground
16	V _{EE}	Power Supply (-5V)
17	V _{CC}	Power Supply (+5V)
18	V ₃	Control Port
19	V ₂	Control Port
20	V ₁	Control Port

Outline Drawing (mm)



State	Bias
Low (0)	0-0.2V
High (1)	3-5V