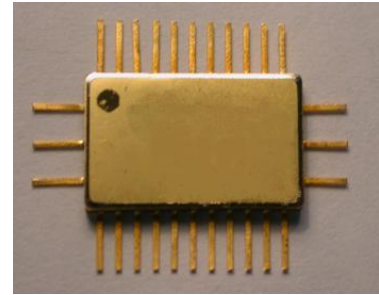


Performance

- Frequency: 260~460MHz
- Phase Error (RMS): 3°
- Insertion loss: 12dB
- Amplitude Equalization: ± 1 dB
- Operating Voltage: TTL
- Package Form: Metal Ceramic Package Q28-01H
- Package Size: 15mm*9.4mm*2mm
- Internal Integrated Driver

Function Diagram

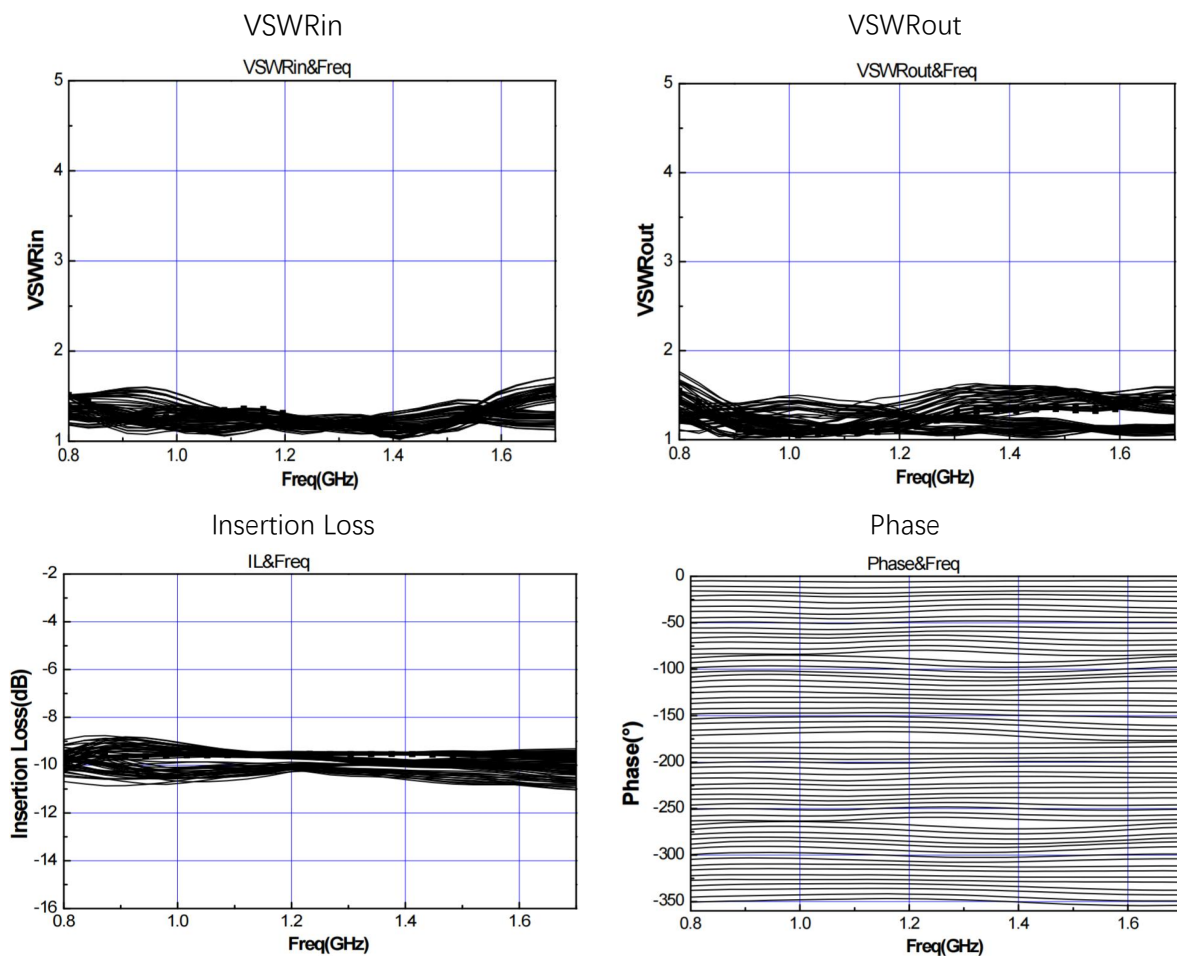


Electrical Specifications (T_A=25°C, V_{ee}:-5V,V_{cc}:+5V,V_{1,2}.....:TTL,F: 260~460MHz)

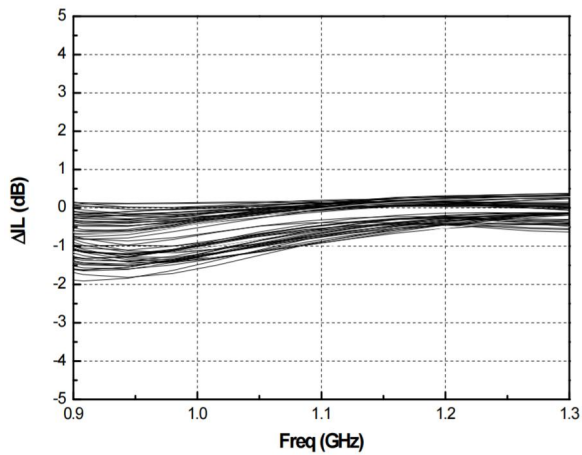
Symbol	Parameter	Min	Typical	Max	Unit
IL	Insertion Loss	-	12	14	dB
RMS	RMS Phase Error	-	3	5	°
Δ Li	Amplitude Equalization	-	± 0.5	± 1	dB
VSWR	VSWR in/out	-	1.4	1.6	

[1] When using, it is recommended to connect V_{ee}, V_{cc} with a decoupling capacitor of 0.1~5uF.

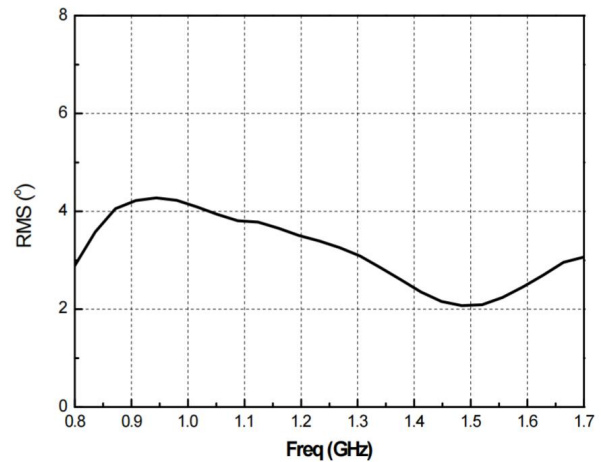
Test Curves



Amplitude Equalization



RMS Phase Error



Absolute Max Ratings (T_A=25°C)²

Symbol	Parameter	Value	Remark
V1~V6	Control Voltage	TTL	
Pin	Input Power	25dBm	
Tch	Channel Temperature	150°C	
Tm	Mounting Temperature	220°C	
Tstg	Storage Temperature	-55~125°C	

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

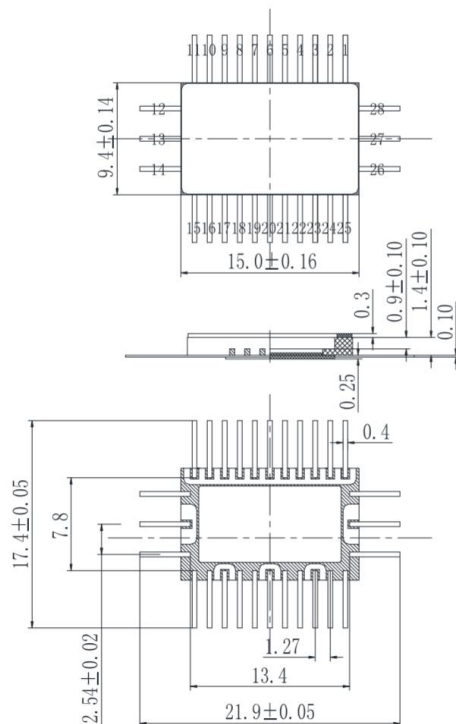
Truth Table

Pin	3	6	7	8	9	10	11	1	2
Symbol	V1	V2	V3	V4	V5	V6	V7	Vee	Vcc
RFin→Termination	0	0	0	0	0	0	0	-5V	+5V
RFin→RFout	Ground state	1	0	0	0	0	0	-5V	+5V
	5.625	1	0	0	1	0	0	-5V	+5V
	11.25	1	0	0	0	0	1	-5V	+5V
	22.5	1	0	1	0	0	0	-5V	+5V
	45	1	0	0	0	0	1	-5V	+5V
	90	1	1	0	0	0	0	-5V	+5V
	180	1	0	0	0	1	0	-5V	+5V

Pin Definition

Port	Symbol	Description	Port	Symbol	Description
1	Vee	Power supply Port (-5V)	15	GND	Ground
2	Vcc	Power supply Port (+5V)	16	GND	Ground
3	V1	Switch control bit	17		Empty
4		Empty	18	GND	Ground
5		Empty	19	GND	Ground
6	V2	90° control bit	20		Empty
7	V3	22.5° control bit	21	GND	Ground
8	V4	5.625° control bit	22	GND	Ground
9	V5	180° control bit	23		Empty
10	V6	11.25° control bit	24	GND	Ground
11	V7	45° control bit	25	GND	Ground
12	GND	Ground	26	GND	Ground
13	RFin	RF signal input port	27	RFout	RF signal output port
14	GND	Ground	28	GND	Ground

Outline Drawing (mm)



Control Voltage

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