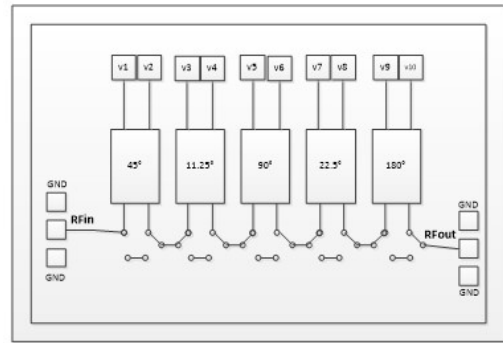


Performance

- Frequency: 33-37GHz
- Bit: 5
- Step: 11.25°
- Phase Shift Error (RMS): 2°
- Insertion loss: 7dB
- VSWR: 1.4:1
- Insertion Loss Variation: ±0.5dB
- Control Voltage: 0/-5V
- Chip size: 2.6*1.1*0.08mm

Function Diagram

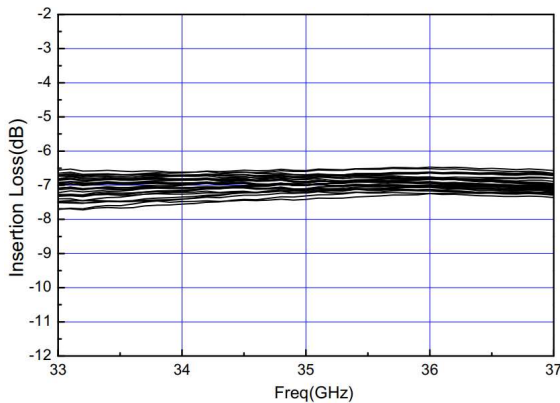


Electrical Specifications (Ta=+25°C, V1~V10=0/-5V control, 50Ω system)

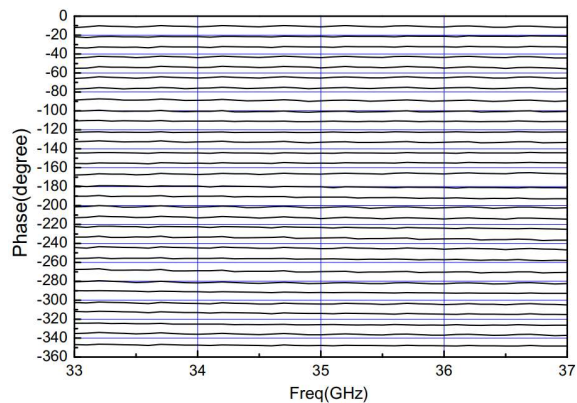
Parameter	Test Frequency	Min	Typical	Max	Unit
Insertion Loss	33-37GHz	-	7	-	dB
Phase Delay Error (RMS)	33-37GHz	-	2	-	deg
Insertion Loss Variation	33-37GHz	-	±0.5	-	dB
VSWR	33-37GHz	-	1.5	-	

Test Curves

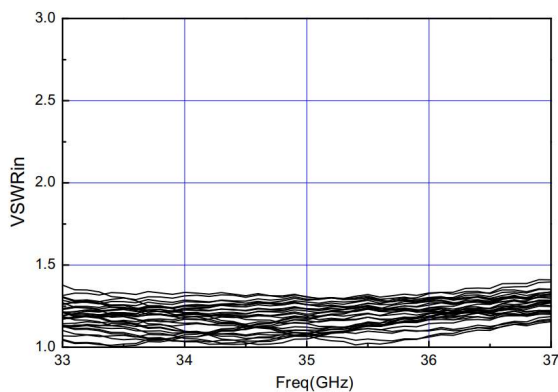
Insertion Loss vs. Freq



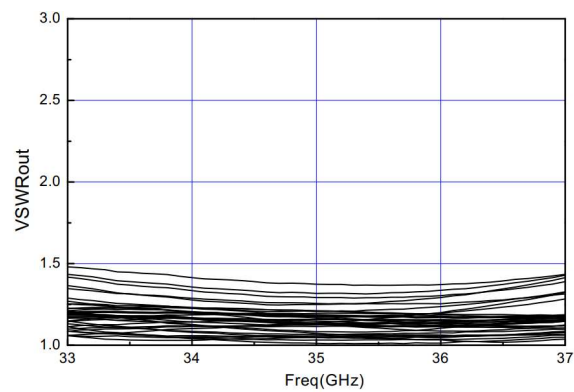
All states Phase vs. Freq



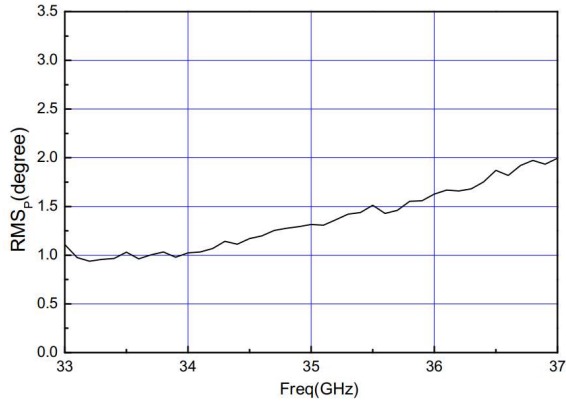
VSWR_{in} vs. Freq



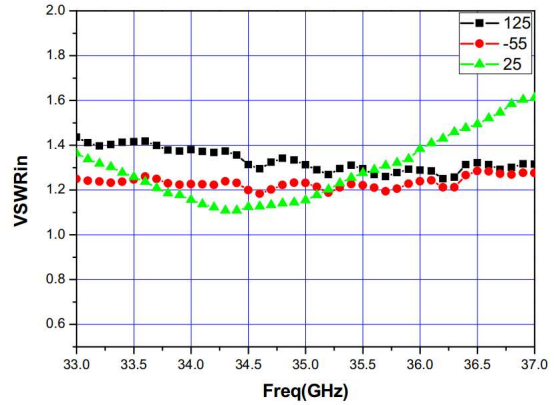
VSWR_{out} vs. Freq



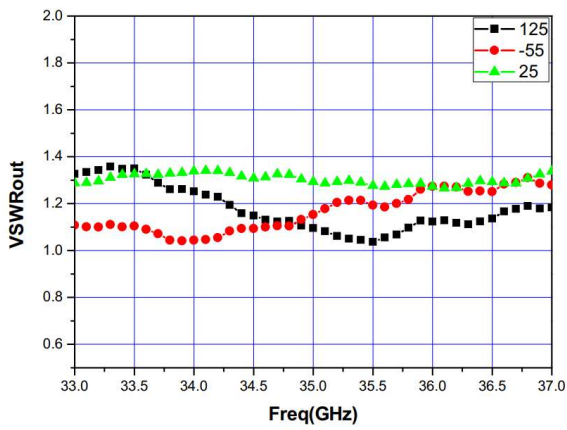
RMS vs. Freq



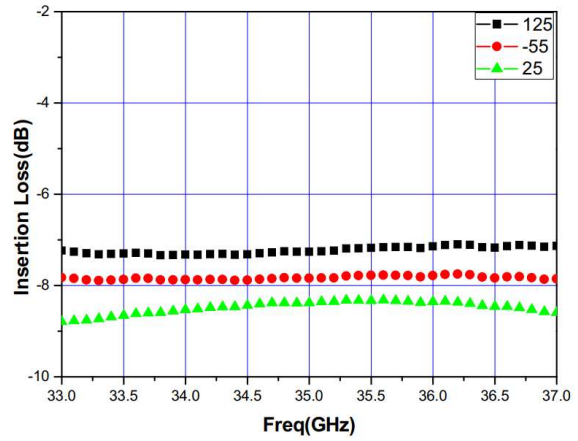
VSWRin vs. Freq vs. Temperature



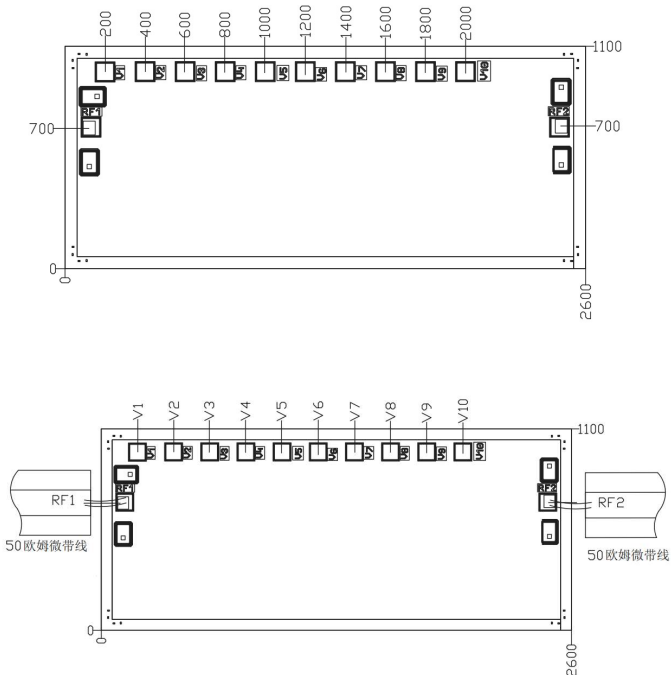
VSWRout vs. Freq vs. Temperature



I.L vs. Freq vs. Temperature



Outline Drawing (mm):



Truth Table

Pin No	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
Reference	-5	0	-5	0	-5	0	-5	0	-5	0
11.25°	-5	0	0	-5	-5	0	-5	0	-5	0
22.5°	-5	0	-5	0	-5	0	0	-5	-5	0
45°	0	-5	-5	0	-5	0	-5	0	-5	0
90°	-5	0	-5	0	0	-5	-5	0	-5	0
180°	-5	0	-5	0	-5	0	-5	0	0	-5

Absolute Maximum Ratings

Symbol	Parameter	Value	Remark
V1-10	Control Voltage	0.5V/-7V	
Pin	Input Power (CW mode)	25dBm	
Tch	Channel Temperature	150°C	
Tm	Mounting Temperature	300°C	1min, N ₂ protecting
Tstg	Storage Temperature	-55~150°C	

Exceed any of above ratings may cause permanent damage.