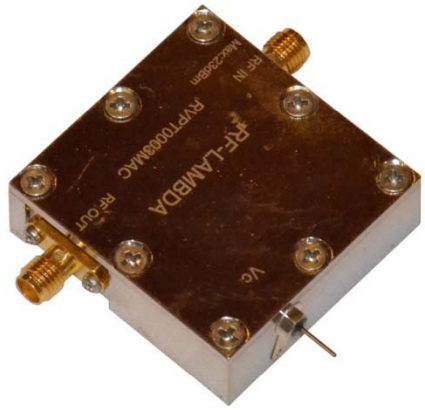
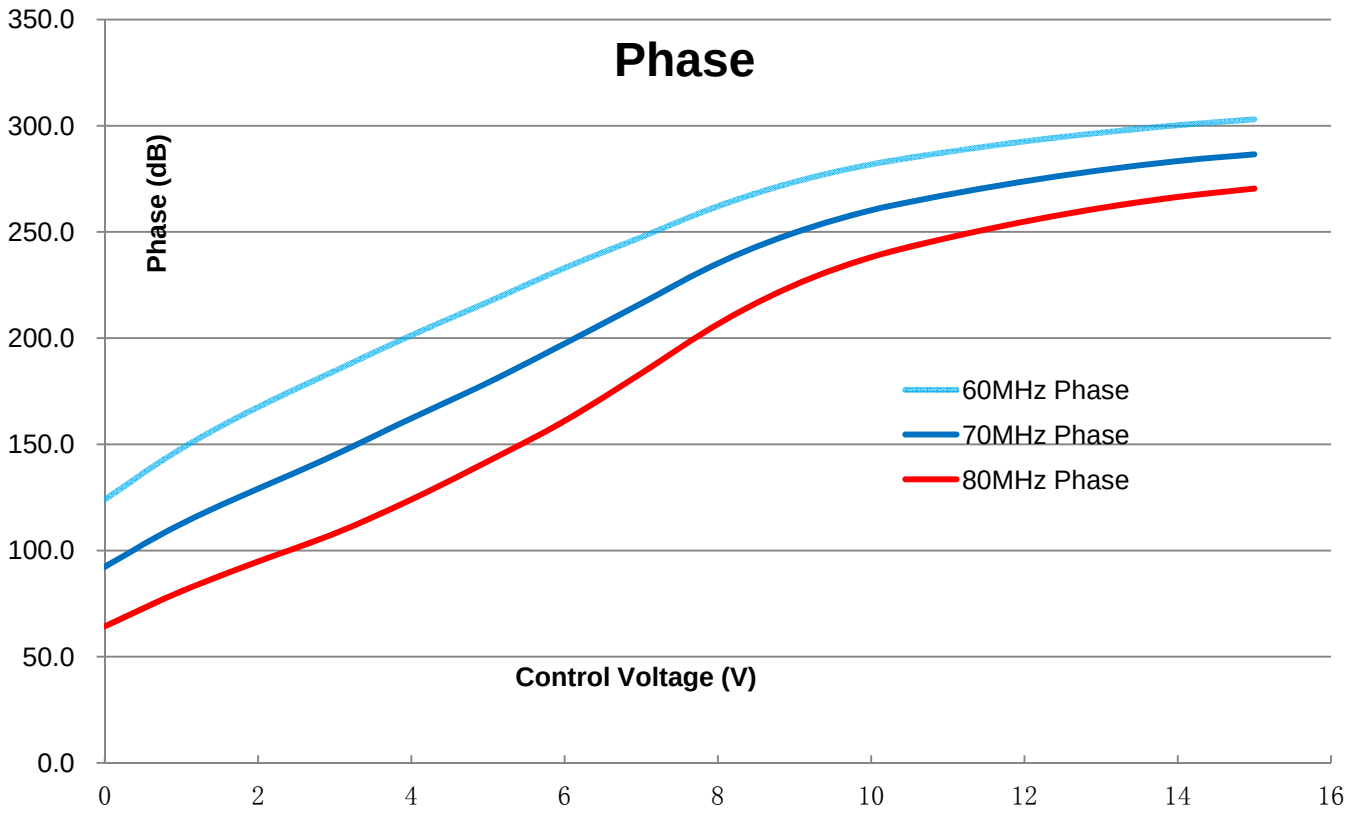
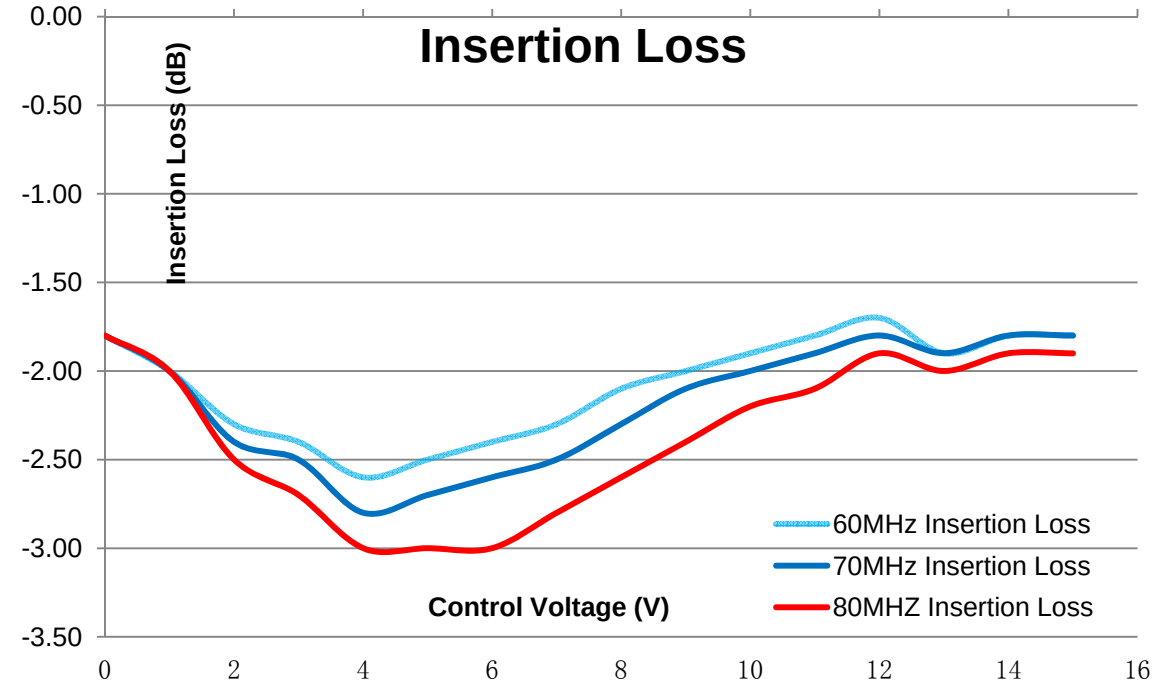
Analog Voltage Control Phase Shifter 60-80MHz 180° Full Band

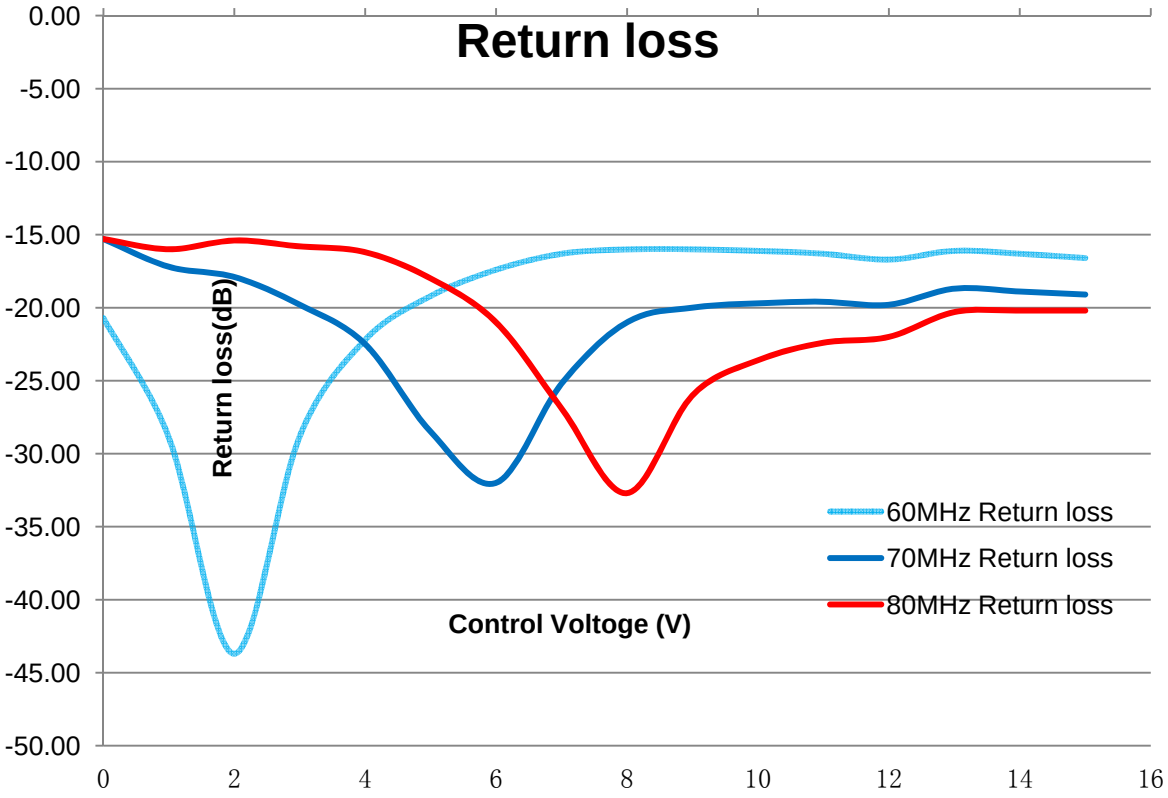


- frequency band cover 60-80MHz full band
- 180 degree phase shift range
- Low insertion loss variation
- 0–15 V control voltage range
- Low IM3 and High IP3 Performance
- Available in SMD and Coaxial Package
- Lead (Pb)-free and RoHS-compliant
- Temperature Range -55°C~+85°C
- Customization available upon request

Frequency	Bandwidth	Degree	Phase Slope	Insertion Loss (dB)	VSWR (max.)	Voltage (V)	Power (Watts)
60-80MHz	Full	180° min 240° typ.	±30°	3.0	1.50	DC-15V <5uA Direct Biasing	0.1




Insertion Loss
Insertion Loss (dB)
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
-3.50
0
2
4
6
8
10
12
14
16
Control Voltage (V)
60MHz Insertion Loss
70MHz Insertion Loss
80MHZ Insertion Loss


Return loss
Return loss(dB)
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
-45.00
-50.00
0
2
4
6
8
10
12
14
16
Control Voltoge (V)
60MHz Return loss
70MHz Return loss
80MHz Return loss

Analog Voltage Control Phase Shifter 180° 60-80MHz

DC Voltage （V）		S11 (dB)	S21 (dB)	S21 (°)	S11 (dB)	S21 (dB)	S21 (°)	S11 (dB)	S21 (dB)	S21 (°)
		60MHz			70MHz			80MHz		
Temperature 25°C										
0.00		-20.70	-1.80	124.0	-15.30	-1.80	92.3	15.3	-1.80	64.3
1.00		-28.90	-2.00	148.0	-17.20	-2.00	112.6	-16	-2.00	80.8
2.00		-43.70	-2.30	167.5	-17.90	-2.40	129.0	-15.4	-2.50	94.8
3.00		-28.80	-2.40	-175.5	-19.80	-2.50	145.0	-15.8	-2.70	108.0
4.00		-22.20	-2.60	-158.7	-22.50	-2.80	162.2	-16.2	-3.00	124.0
5.00		-19.20	-2.50	-143.0	-28.50	-2.70	179.0	-18	-3.00	142.0
6.00		-17.40	-2.40	-127.0	-32.00	-2.60	-162.6	-21	-3.00	161.0
7.00		-16.30	-2.30	-112.5	25.20	-2.50	-143.7	-26.9	-2.80	-176.6
8.00		-16.00	-2.10	-97.9	-21.00	-2.30	-124.8	-32.7	-2.60	-153.4
9.00		-16.00	-2.00	-86.5	-20.00	-2.10	-110.4	-26	-2.40	-135.0
10.00		-16.10	-1.90	-78.2	-19.70	-2.00	-99.8	-23.6	-2.20	-121.9
11.00		-16.30	-1.80	-72.4	-19.60	-1.90	-92.5	-22.4	-2.10	-112.8
12.00		-16.70	-1.70	-67.4	-19.80	-1.80	-86.2	-22	-1.90	-105.2
13.00		-16.10	-1.90	-63.3	-18.70	-1.90	-81.0	-20.3	-2.00	-98.7
14.00		-16.30	-1.80	-59.8	-18.90	-1.80	-76.6	-20.2	-1.90	-93.5
15.00		-16.60	-1.80	-57.0	-19.10	-1.80	-73.5	-20.2	-1.90	-89.6

CAUTION: *Although this device is designed to be as robust as possible, ESD (Electrostatic Discharge) can damage this device. This device must be protected at all times from ESD. Static charges may easily produce potentials of several kilovolts on the human body or equipment, which can discharge without detection. Industry-standard ESD precautions must be employed at all times.*