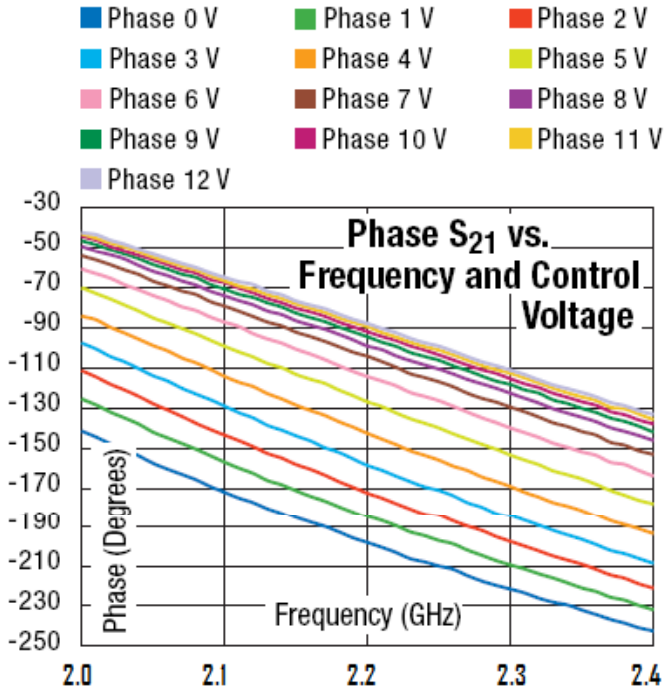
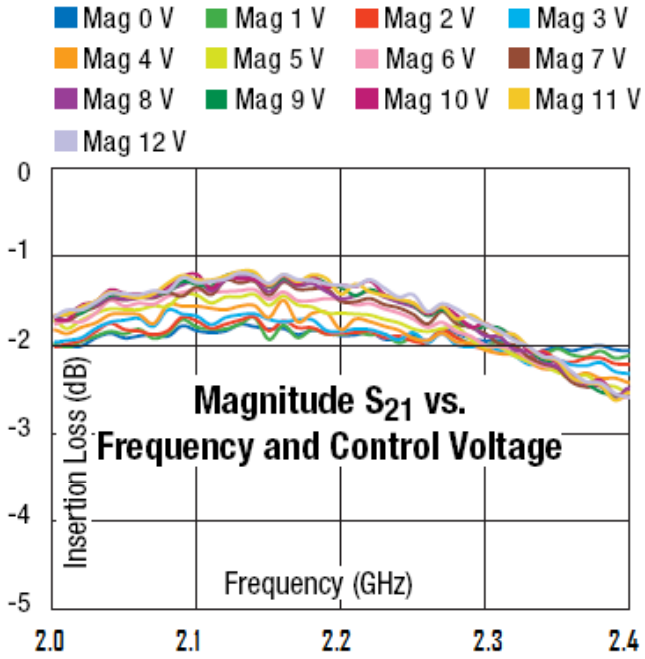
Analog Voltage Control Phase Shifter

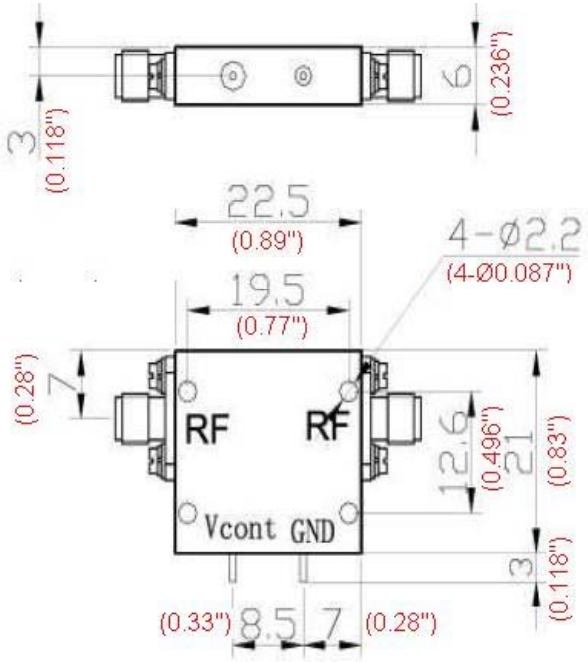
- frequency band up to 31GHz
- 180~360 degree phase shift range
- Low insertion loss variation
- 0–15 V control voltage range
- Low IM3 and High IP3 Performance
- Available in SMD and Coaxial Package
- Lead (Pb)-free and RoHS-compliant
- Temperature Range -55ºC~+85ºC
- Customization available upon request

360° Voltage Controllable Phase Shifter (Coaxial)								
Part Number	Degree	Low Freq. (GHz)	High Freq. (GHz)	Bandwidth	Insertion Loss (dB)	VSWR (max.)	Voltage (V)	Power (Watts)
RVPT0117MBC	360°	0.01	0.17	30%	4.00	2.00	DC-20	0.1
RVPT1725MBC	360°	0.17	0.25	FULL Band	4.00	2.00	DC-20	0.1
RVPT0205MBC	360°	0.25	0.5	FULL Band	4.00	2.00	DC-20	0.1
RVPT0501GBC	360°	0.5	1	FULL Band	4.00	2.00	DC-20	0.1
RVPT0102GBC	360°	1	2	FULL Band	4.00	2.00	DC-20	0.1
RVPT0204GBC	360°	2	4	FULL Band	5.00	2.50	DC-13	0.1
RVPT0408GBC	360°	4	8	FULL Band	8.00	2.00	DC-13	0.1
RVPT0818GBC	360°	8	18	FULL Band	8.00	2.50	DC-13	0.1
RVPT1822GBC	360°	18	22	10%	10.00	2.50	DC-15	0.1
RVPT2231GBC	360°	22	31	10%	14.00	2.50	DC-15	0.1
180° Voltage Controllable Phase Shifter (Coaxial)								
Part Number	Degree	Low Freq. (GHz)	High Freq. (GHz)	Bandwidth	Insertion Loss (dB)	VSWR (max.)	Voltage (V)	Power (Watts)
RVPT0117MAC	180°	0.01	0.17	30%	1.50	1.60	DC-20	0.1
RVPT1725MAC	180°	0.17	0.25	FULL Band	3.00	2.00	DC-20	0.1
RVPT0205MAC	180°	0.25	0.5	FULL Band	3.00	2.00	DC-20	0.1
RVPT0501GAC	180°	0.5	1	FULL Band	3.00	2.00	DC-20	0.1
RVPT0102GAC	180°	1	2	FULL Band	3.00	2.00	DC-20	0.1
RVPT0204GAC	180°	2	4	FULL Band	3.50	2.50	DC-10	0.1
RVPT0408GAC	180°	4	8	FULL Band	4.50	2.50	DC-10	0.1
RVPT0818GAC	180°	8	18	FULL Band	8.00	2.50	DC-10	0.1
RVPT1218GAC	180°	12	18	FULL Band	6.00	2.50	DC-10	0.1
RVPT0220GAC	180°	2	20	FULL Band	7.00	2.50	DC-13	0.1
Surface Mount Voltage Controllable Phase Shifter								
Part Number	Degree	Low Freq. (GHz)	High Freq. (GHz)	Bandwidth	Insertion Loss (dB)	VSWR (max.)	Voltage (V)	Power (Watts)
RVPT0003MAS	180°	0.01	0.30	10%	1.50	1.60	0-15	0.2
RVPT0302GAS	180°	0.30	2.00	10%	2.00	2.00	0-15	0.2
RVPT0003MBS	360°	0.01	0.30	10%	3.00	1.60	0-15	0.2
RVPT0302GBS	360°	0.30	2.00	10%	4.00	2.00	0-15	0.2

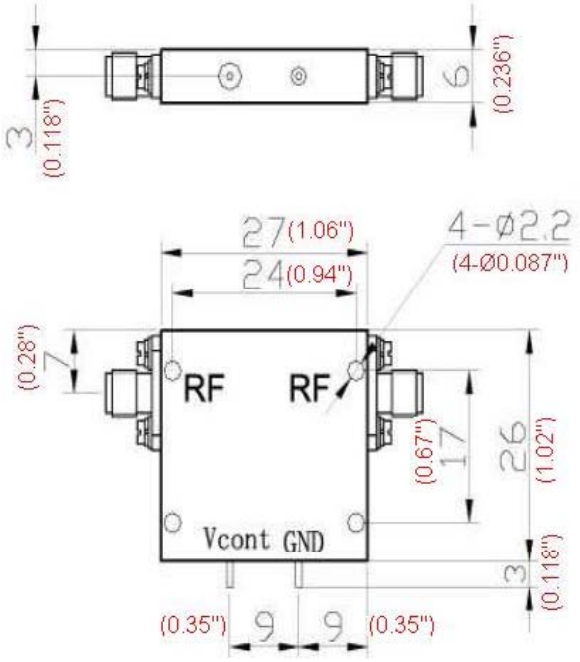




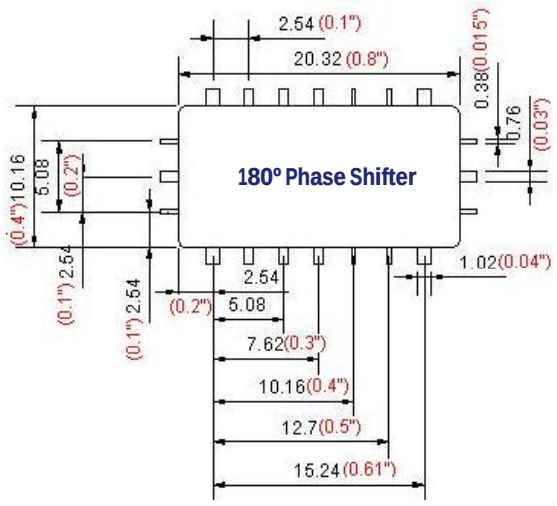
CAUTION: *Although this device is designed to be as robust as possible, ESD (Electrostatic Discharge) can damage this device. This device must be protected at all times from ESD. Static charges may easily produce potentials of several kilovolts on the human body or equipment, which can discharge without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

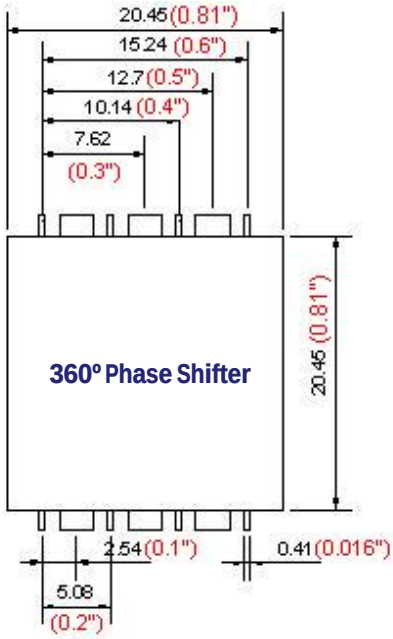


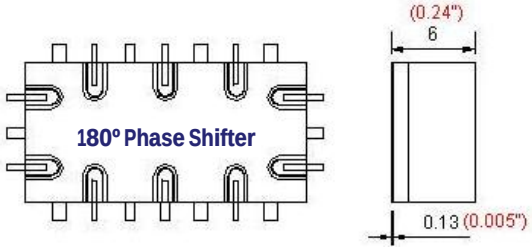
180° Phase Shifter

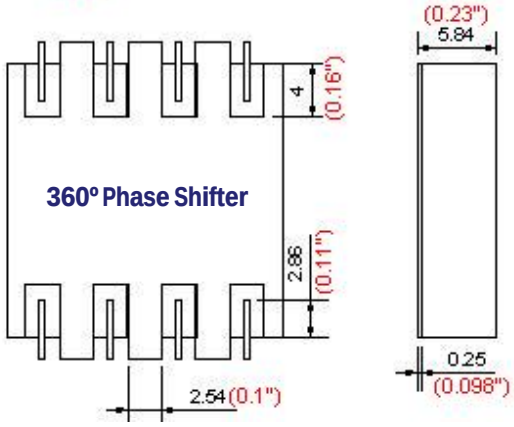


360° Phase Shifter









Terminal No.	Terminal Name
A_1 (Pin 1)	IN/OUT
A_2	GND
A_3	IN/OUT
B_1	GND
B_3	GND
C_1	$V_{CONTROL}$
C_2	GND
C_3	$V_{CONTROL}$