



Octave-Band Digital Phase Shifters

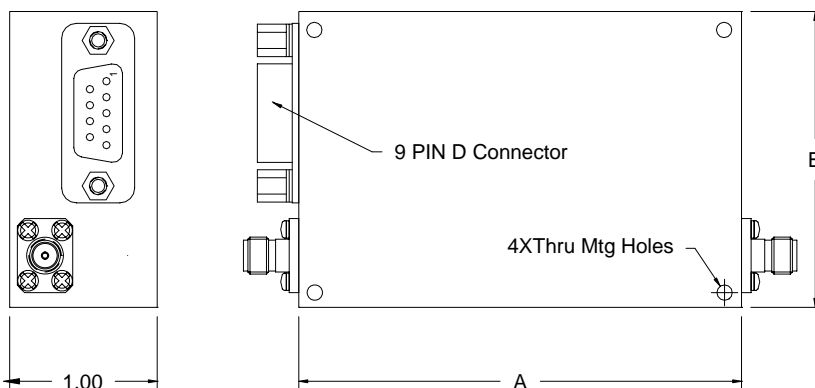
FEATURES

- ❖ Low Insertion Loss
- ❖ Low VSWR
- ❖ Monotonicity Guaranteed
- ❖ Wide Phase Shift Range
- ❖ Binary TTL Logic Control

SPECIFICATIONS

Octave-Band Digital Phase Shifters							
Model Number	Frequency Range (GHz)	Phase Shift (deg)	Insertion Loss (dB)	Amplitude Ripple (\pm dB)	VSWR	Phase Flatness (\pm %)	Outline Figures
PD8-051-360	0.5-1	360	4.5	1.25	1.5:1	15	1
PD8-12-360	1-2	360	4.5	1.5	1.6:1	15	2
PD8-24-360	2-4	360	5.0	1.5	1.7:1	15	3
PD8-48-360	4-8	360	8.0	1.5	1.7:1	15	4
PD8-612-360	6-12	360	12	2.0	1.8:1	15	4
PD8-816-360	8-16	360	14	3.5	2.0:1	15	4

- Note 1. Monotonicity guaranteed for all models.
 Note 2. Other phase shift value and digital control bits (up to 12 bits) are available on request.
 Note 3. Other frequency bands are available.
 Note 4. DC voltage of $\pm 15V$ at ± 30 mA are required for octave and multi-octave band models and $\pm 5V$ at ± 70 mA per bit are required for specific application band models.
 Note 5. For octave and multi-octave band models, input operating power is 10 mW peak or CW and damage power level is 1 W CW and 100 W peak. For specific application band models, input operating power is 200 mW CW and 10 W peak, higher operating power level is available on request.
 Note 6. Switching speed is 200 ns for octave and multi-octave band models, higher speeds available on request. For specific application band models, the typical switching speed is 500 ns, however 15 ns can be achieved if required.



Outline		
Figure	A (inch)	B (inch)
1	7.8	2.5
2	6.5	2.5
3	6.5	2.0
4	5.0	2.0