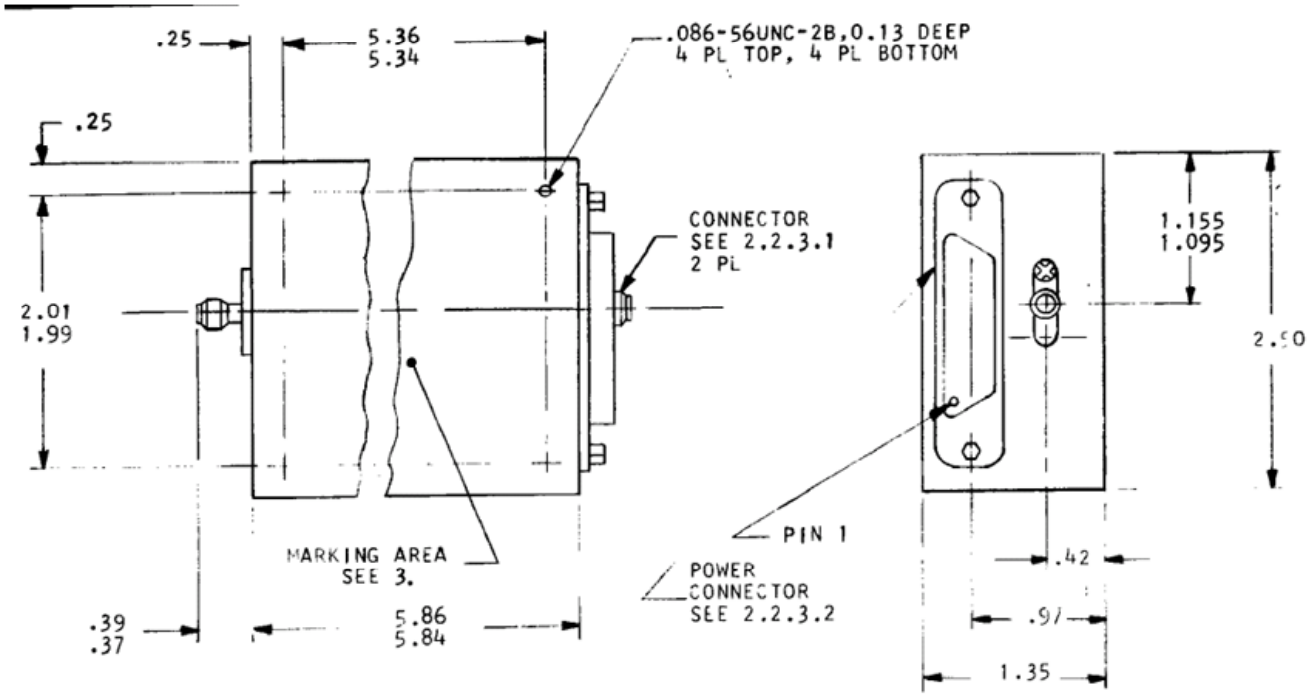
Absorptive and Reflective
2.8-5.7GHz PIN Diode Digital Attenuator

- Wide Band Operation 2800-5700MHz
- High Power Handle up to 50W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss good attenuation accuracy
- Temperature Range -55°C~+85°C
- Customization available upon request

Absorptive type digital control step attenuator						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Step / Range (dB)	Avg. Power (Watts)	Switching Speed (ns)
RFDAT0206G8A	2.8-5.7	3.5	1.3	0.25dB / 60dB	0.2~1W	100~500
Reflective type digital control step attenuator						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Step / Range (dB)	Avg. Power (Watts)	Switching Speed (us)
RFDAT0206G8R	2.8-5.7	3.5	1.3	0.25dB / 60dB	1W~50W	1~10us



Absorptive / Reflective Coaxial Digital Step Attenuator 2.80-5.70GHz

1.0	Mechanical Specifications	
1.1	Basis-material	Brass
1.2	Coaxial Connector	SMA Female
1.3	External Body Finish	Nickel plating

2.0	Environment specifications	
2.1	Operation Temp.	-40°C~+85°C
2.2	Storage Temp.	-50°C~+125°C
2.3	Altitude	45000 ft
2.4	Vibration	10g rms (15 degree 2KHz)
2.5	Humidity	100% RH at 35c, 95%RH at 40 deg c
2.6	Shock	20G for 11msc

3.0	Electrical Specifications	
3.1	Frequency Range	2.8Ghz-5.7GHz
3.2	Max. VSWR	1.50:1 max.
3.3	Power	1~50W available 1W CW (as shown)
3.4	Insertion Loss	3.5dB typ. 3.8dB max.
3.5	Step	0.25dB
3.6	Switching speed	100ns typ. (1W unit)
3.7	IM3 /P1dB	60dBc / +27dBm
3.7	TTL Control (Balance)	C7 C6 C5 C4 C3 C2 C1 Co Atten 0 0 0 0 0 0 0 0 IL 0 0 0 0 0 0 0 1 0.25dB 0 0 0 0 0 0 1 0 0.5dB 0 0 0 0 0 1 0 0 1.0dB 0 0 0 0 1 0 0 0 2.0dB 0 0 0 1 0 0 0 0 4.0dB 0 0 1 0 0 0 0 0 8.0dB 0 1 0 0 0 0 0 0 16dB 1 0 0 0 0 0 0 0 32dB
3.8	DC Control	+5V (400mA) +15V(200mA)
3.9	DB15 PIN	PIN 1 PIN 9 Co C1 PIN 2 PIN 10 C2 C3 PIN 3 PIN 11 C4 C5 PIN 4 PIN 12 C6 C7 PIN 7 PIN 14 +15V / GND PIN 8 PIN 15 +5V / GND PIN 9~15, PIN 5 PIN 6 (N/A)