

# CONTINUOUSLY VARIABLE ATTENUATORS

Mid-Size  
Models

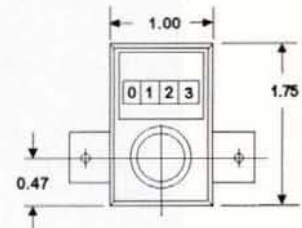
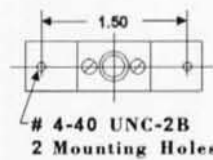
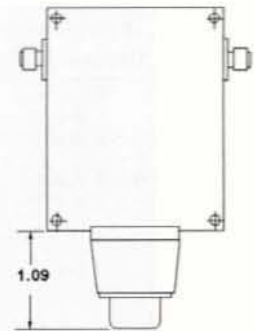
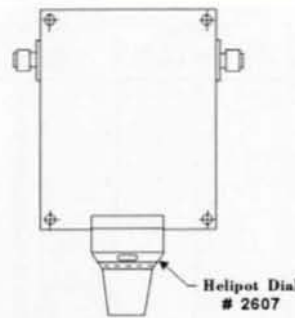
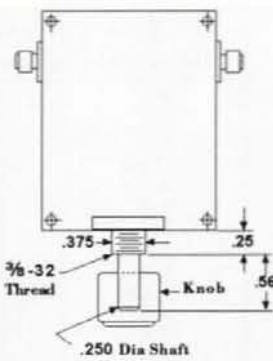
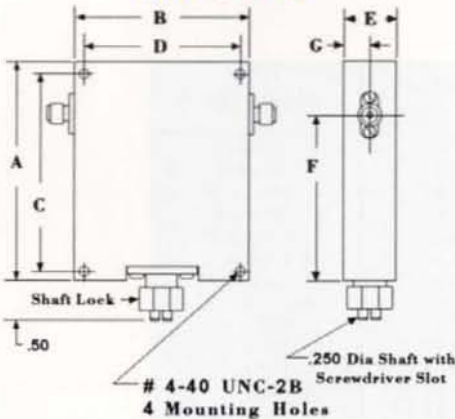


**Standard Form**  
4061 & 6931

**P Option**  
0-1654 & 6975

**T Option**  
0-1524 & 6974

**D Option**  
0-3347 & 0-3348



**Dimensions - Inches**

Form	A	B	C	D	E	F	G
4061	2.50	2.00	2.340	1.840	0.56	1.75	0.31
6931	3.00	2.90	2.500	2.500	0.71	2.06	0.34

## OPTIONAL FEATURES

The standard attenuator packages, Forms 4061 and 6931, have non-translating 1/4" diameter shafts with lock nut. They achieve full attenuation in less than 30 turns. To maintain versatility, this attenuator comes in 3 other packages. To specify these options, precede the model number with P for panel-mount version, T for turns-counting version, or D for digital-counter version.

When options are ordered, Standard Form 4061 changes to Form 0-1654 for panel-mount type, Form 0-1524 for turns-counting type or Form 0-3347 for digital-counter type. Standard Form 6931 becomes Form 6975 for panel mount type, Form 6974 for turns-counting type or Form 0-3348 for digital counter type.

## APPLICATIONS

The standard forms are ideal for applications where attenuation can be set, then locked and left for long periods of time without movement. The panel-mount version is ideally suited for applications where front panel adjustment is required and monitored via output power. Turns-counting dials are ideally suited for panel-mount applications where calibration or reference for resetting is required. The digital-counter version performs the same task as the turns-counting dial but with greater resolution. Both T & D options can be calibrated by utilizing a calibration chart. Order CT or CD option.

# CONTINUOUSLY VARIABLE ATTENUATORS

Mid-Size  
Models

## GENERAL SPECIFICATIONS

- RF Power . . . . . 5 Watts average  
3 kW peak
- Connectors \* . . . . . SMA Female standard
- Temperature Range . . . -55° C to +85° C
- Resettability . . . . . 0.1 dB or better
- Material . . . . . Body - Aluminum  
Conn - Stainless Steel
- Finish . . . . . ARRA Blue per  
MIL-C-22750
- Mounting Provisions . . . All forms have tapped  
holes

These units represent the most complete line of mid-size continuously variable attenuators.

Most models have been qualified for all types of military applications. Since attenuation is achieved in a non-contacting manner, these units provide the utmost in wear-free performance and high reliability.

*Units utilize ARRA's proprietary dissipative materials and operate over extremely wide temperature ranges with little change in attenuation characteristics.*

## LEVEL SET MODELS

Frequency Range (GHz)	Atten Range (dB)	Max VSWR	Max Ins Loss (dB)	Form Factor	Model No. *
0.5-1.0	10	1.80	0.50	6931	2854-10
0.75-1.5	10	1.50	0.50	6931	2-3854-10
	20	1.50	0.50	6931	2-3854-20
	30	1.50	0.50	6931	3854-30
1.0-2.0	15	1.50	0.50	4061	3844-15
	20	1.50	0.50	6931	3854-20
	30	1.50	0.50	6931	3854-30
1.5-2.0	20	1.50	0.50	4061	3844-20
	40	1.50	0.50	6931	3854-40
	60	1.50	0.50	6931	3854-60
0.8-2.5	10	1.50	0.50	6931	2-4854-10
	20	1.50	0.50	6931	2-4854-20
	30	1.50	0.50	6931	4844-30
2.0-4.0	10	1.50	0.50	4061	4844-10
	20	1.50	0.50	4061	4844-20
	30	1.50	0.50	4061	4844-30
4.0-8.0	40	1.50	0.50	6931	4854-40
	10	1.50	0.50	4061	5844-10
	20	1.50	0.50	4061	5844-20
5.4-11.0	30	1.50	0.50	4061	5844-30
	40	1.50	0.50	4061	5844-40
	10	1.35	0.25	4061	5-6844-10X
7.0-11.0	20	1.35	0.25	4061	5-6844-20X
	10	1.30	0.20	4061	6844-10X
	20	1.30	0.20	4061	6844-20X
1.0-12.4	30	1.50	0.50	4061	6844-30X
	10	1.50	0.50	4061	3-6844-10
	20	1.50	0.50	4061	4-6844-10
2.0-12.4	20	1.50	0.50	4061	4-6844-20
	10	1.50	0.50	4061	5-6844-10
	20	1.50	0.50	4061	5-6844-20
4.0-12.4	30	1.50	0.50	4061	5-6844-30
	10	1.50	0.50	4061	6844-10
	20	1.50	0.50	4061	6844-20
8.0-12.4	30	1.50	0.50	4061	6844-30
	40	1.50	0.50	4061	6844-40
	10	1.50	0.50	4061	9844-10
12.4-18.0	20	1.50	0.50	4061	9844-20
	30	1.50	0.50	4061	9844-30
	40	1.50	0.50	4061	9844-40

## FLAT WITH FREQUENCY MODELS

Frequency Range (GHz)	Atten Range (dB)	Atten vs Freq (± dB)	Max VSWR	Max Ins Loss (dB)	Form Factor	Model No. *	
0.86-0.90	10	0.25	1.60	0.50	6931	2853-10A	
	15	0.50	1.60	0.50	6931	2853-15A	
	20	0.50	1.60	0.50	6931	2853-10B	
0.82-0.98	10	0.50	1.60	0.50	6931	2853-10B	
	15	0.75	1.60	0.50	6931	2853-15B	
	20	0.75	1.50	0.50	6931	2853-10	
0.80-1.0	10	1.00	1.50	0.50	6931	2853-20	
	20	1.00	1.50	0.50	6931	3843-20A	
	30	1.25	1.50	0.50	4061	3843-15A	
1.25-1.35	15	1.25	1.50	0.50	4061	3843-15A	
	10	0.75	1.50	0.50	6931	3853-10	
	20	1.25	1.50	0.50	6931	3853-20	
1.2-1.4	10	1.00	1.50	0.50	6931	3853-10A	
	20	1.50	1.50	0.50	6931	3853-20A	
	30	1.50	1.50	0.50	6931	3853-10B	
1.0-1.5	10	0.75	1.50	0.50	6931	3853-10B	
	20	1.00	1.50	0.50	6931	3853-20B	
	30	0.75	1.50	0.50	6931	3-4853-10	
1.5-2.0	10	0.50	1.50	0.50	6931	3-4853-20	
	20	0.75	1.50	0.50	4061	4843-15A	
	30	0.20	1.50	0.50	4061	4843-20A	
2.0-2.1	20	0.50	1.50	0.50	4061	4843-20A	
	10	1.00	1.50	0.50	4061	4843-10	
	20	0.50	1.50	0.50	6931	4853-10	
2.0-4.0	10	0.50	1.50	0.50	6931	4853-10	
	20	1.50	1.50	0.50	4061	4843-20	
	30	1.00	1.50	0.50	6931	4853-20	
3.7-4.2	30	1.75	1.50	0.50	6931	4853-30	
	20	1.00	1.50	0.50	4061	4-5843-20	
	10	0.25	1.50	0.50	6931	4-5853-10	
2.9-4.3	20	0.50	1.50	0.50	6931	4-5853-20	
	30	1.00	1.50	0.50	6931	4-5853-30	
	10	0.50	1.50	0.50	4061	5843-10	
4.0-8.0	20	1.00	1.50	0.50	4061	5843-20	
	15	0.25	1.50	0.50	4061	5843-15A	
	30	1.00	1.50	0.50	4061	5-6843-30A	
6.2-7.0	30	0.50	1.50	0.50	4061	5-6843-30B	
	7.2-8.4	10	0.50	1.50	0.50	4061	6843-10
	30	0.50	1.50	0.50	4061	6843-20	
7.9-8.4	10	0.50	1.50	0.50	4061	6843-30	
	20	1.00	1.50	0.50	4061	9843-20	
	30	2.00	1.50	0.50	4061	9843-30	
8.0-12.4	20	1.00	1.50	0.50	4061	9843-20	
	30	2.00	1.50	0.50	4061	9843-30	
	40	2.00	1.50	0.50	4061	9843-40	

\* To specify Type N Female connectors, precede model number with N. Ex: N3844-15