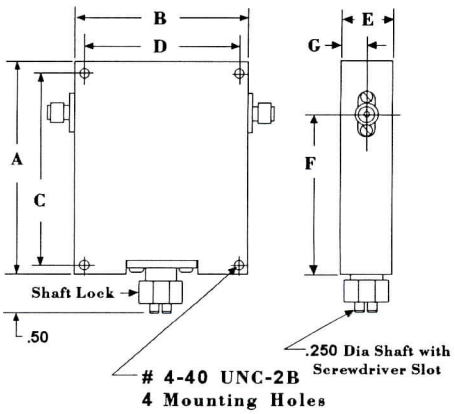
ARRA INC.
ANTENNA & RADOME RESEARCH ASSOCIATES
Tel 516-231-8400 Fax 516-434-1116

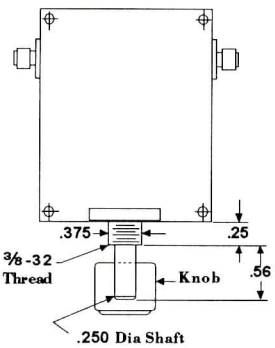
CONTINUOUSLY VARIABLE ATTENUATORS

Mid-Size Models

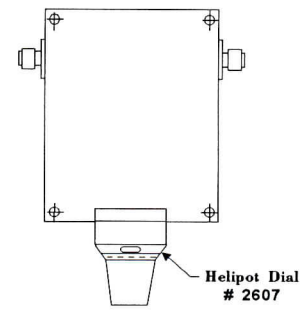
Standard Form 4061 & 6931

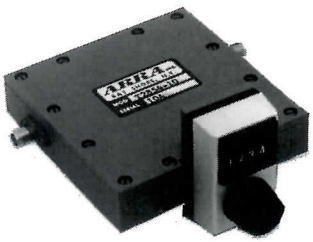


P Option 0-1654 & 6975

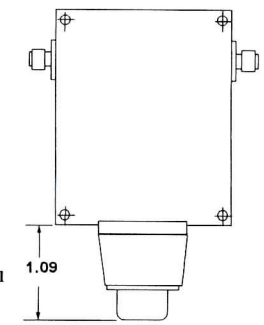


T Option 0-1524 & 6974



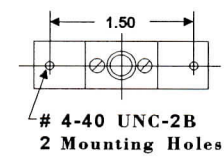


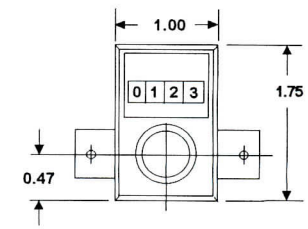
D Option 0-3347 & 0-3348



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.

ARRA INC.
ANTENNA & RADOME RESEARCH ASSOCIATES
Tel 516-231-8400 Fax 516-434-1116

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
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
0.8-2.5	10	1.50	0.50	6931	2-4854-10
	20	1.50	0.50	6931	2-4854-20
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
	40	1.50	0.50	6931	4854-40
4.0-8.0	10	1.50	0.50	4061	5844-10
	20	1.50	0.50	4061	5844-20
	30	1.50	0.50	4061	5844-30
	40	1.50	0.50	4061	5844-40
5.4-11.0	10	1.35	0.25	4061	5-6844-10X
	20	1.35	0.25	4061	5-6844-20X
7.0-11.0	10	1.30	0.20	4061	6844-10X
	20	1.30	0.20	4061	6844-20X
	30	1.50	0.50	4061	6844-30X
1.0-12.4	10	1.50	0.50	4061	3-6844-10
2.0-12.4	10	1.50	0.50	4061	4-6844-10
	20	1.50	0.50	4061	4-6844-20
4.0-12.4	10	1.50	0.50	4061	5-6844-10
	20	1.50	0.50	4061	5-6844-20
	30	1.50	0.50	4061	5-6844-30
8.0-12.4	10	1.50	0.50	4061	6844-10
	20	1.50	0.50	4061	6844-20
	30	1.50	0.50	4061	6844-30
	40	1.50	0.50	4061	6844-40
12.4-18.0	10	1.50	0.50	4061	9844-10
	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
0.82-0.98	10	0.50	1.60	0.50	6931	2853-10B
	15	0.75	1.60	0.50	6931	2853-15B
0.80-1.0	10	0.75	1.50	0.50	6931	2853-10
	20	1.00	1.50	0.50	6931	2853-20
1.25-1.35	20	0.50	1.50	0.50	4061	3843-20A
1.2-1.4	15	1.25	1.50	0.50	4061	3843-15A
1.2-1.6	10	0.75	1.50	0.50	6931	3853-10
	20	1.25	1.50	0.50	6931	3853-20
1.0-1.5	10	1.00	1.50	0.50	6931	3853-10A
	20	1.50	1.50	0.50	6931	3853-20A
1.5-2.0	10	0.75	1.50	0.50	6931	3853-10B
	20	1.00	1.50	0.50	6931	3853-20B
1.7-2.2	10	0.50	1.50	0.50	6931	3-4853-10
	20	0.75	1.50	0.50	6931	3-4853-20
2.0-2.1	15	0.20	1.50	0.50	4061	4843-15A
2.0-2.2	20	0.50	1.50	0.50	4061	4843-20A
2.0-4.0	10	1.00	1.50	0.50	4061	4843-10
	10	0.50	1.50	0.50	6931	4853-10
	20	1.50	1.50	0.50	4061	4843-20
	20	1.00	1.50	0.50	6931	4853-20
	30	1.75	1.50	0.50	6931	4853-30
3.7-4.2	20	1.00	1.50	0.50	4061	4-5843-20
2.9-4.3	10	0.25	1.50	0.50	6931	4-5853-10
	20	0.50	1.50	0.50	6931	4-5853-20
	30	1.00	1.50	0.50	6931	4-5853-30
4.0-8.0	10	0.50	1.50	0.50	4061	5843-10
	20	1.00	1.50	0.50	4061	5843-20
6.2-7.0	15	0.25	1.50	0.50	4061	5843-15A
7.2-8.4	30	1.00	1.50	0.50	4061	5-6843-30A
7.9-8.4	30	0.50	1.50	0.50	4061	5-6843-30B
8.0-12.4	10	0.50	1.50	0.50	4061	6843-10
	20	1.00	1.50	0.50	4061	6843-20
	30	2.00	1.50	0.50	4061	6843-30
12.4-18.0	20	1.00	1.50	0.50	4061	9843-20
	30	2.00	1.50	0.50	4061	9843-30

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