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Mid-Size Coaxial Attenuators: 0.5-18 Ghz

Print

ARRA's mid-size coaxial attenuators represent the most complete line of mid-size continuously variable attenuators available today. Most attenuators 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.



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

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 20 turns. To maintain versatility, this attenuator comes in 3 other packages. To specify these options, precede the model number with P for panel-

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 / Connectors - Stainless Steel
- **Finish:** ARRA Blue per MIL-C-22750

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.

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.

- **Mounting Provisions:** All forms have tapped holes

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

LEVEL SET MODELS

Frequency Range (GHz)	Attenuation Range (dB)	VSWR (Max)	Insertion Loss (Max dB)	Standard 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	0.50	4061	5-6844-10X
	20	1.35	0.50	4061	5-6844-20X
7.0-11.0	10	1.30	0.50	4061	6844-10X
	20	1.30	0.50	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	1.70	1.00	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

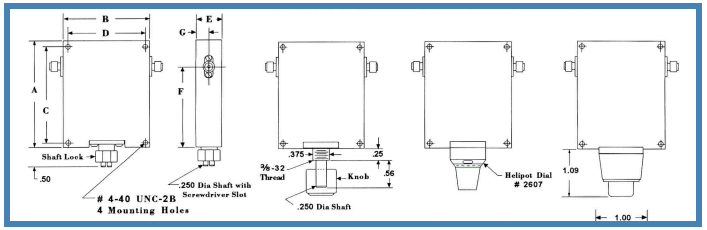
Frequency Range (GHz)	Attenuation Range (dB)	Attenuation vs (Freq ±dB)	VSWR (Max)	Insertion Loss (Max dB)	Form Factor	Standard Model No.
0.86-0.90	10	0.25	1.60	0.50	6931	2853-10A
	15	0.50	1.60	0.50	6931	2853-15A
0.82-0.98	10	0.50	1.60	0.50	6931	2853-10B
	15	0.75	1.60	0.50	6931	2853-15B
0.80-1.0	10	0.75	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

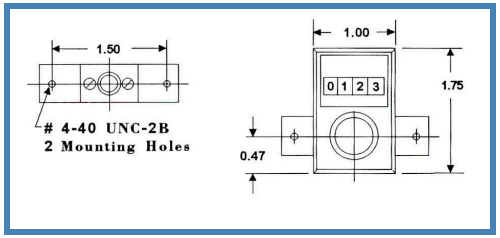
	20	0.75	1.50	0.50	6931	3-4853-20
2.0-2.1	15	0.20	1.50	0.50	4061	4843-15A
2.0-2.2	20	0.50	1.50	0.50	4061	4843-20A
2.0-4.0	10	1.00	1.50	0.50	4061	4843-10
	10	0.50	1.50	0.50	6931	4853-10
	20	1.00	1.50	0.50	6931	4853-20
	30	1.75	1.50	0.50	6931	4853-30
3.7-4.2	20	1.00	1.50	0.50	4061	4-5843-20
2.9-4.3	10	0.25	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	1.70	1.00	4061	6843-10
	20	1.00	1.70	1.00	4061	6843-20
	30	2.00	1.70	1.00	4061	6843-30
12.4-18.0	20	1.00	1.70	1.00	4061	9843-20
	30	2.00	1.70	1.00	4061	9843-30

*To specify Type N Female connectors, precede model number with N.

Ex: N3844-15

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	0.2.500	0.71	2.08	0.34





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