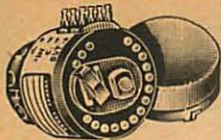


Daven Networks and Attenuators

UNBALANCED LADDER NETWORKS

SERIES LA-350 LADDER NETWORKS

Twenty step, low impedance controls for PA and broadcast systems. Accuracy of resistance: $\pm 5\%$. Insertion loss: Six db for 1:1 impedance ratio and two db for 1:2 impedance ratio. Contact spacing 15° between centers. Dimensions: $1\frac{1}{4}''$ dia., $1\frac{1}{2}''$ back of panel depth. Mounts in single hole to clear $\frac{3}{8}''$ bushing. Wt., 6 oz.



Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., LA-352-K): A, AH, B, BJ, C, K, KF, KG, D, E, F or G. See table for impedances. Series 350 not available in AH. Series 351, 352 and 353 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
LA-350	\$26.56	\$21.27	\$17.59
LA-351, 352 and 353	27.23	21.87	18.09

Dials and Knobs—Net Each... \$2.25

Daven Series	Decibels Per Step	Characteristic	Decibel Total
LA-350	2.0	Tapered	Infinite
LA-351	1.5	Linear	Infinite
LA-352	2.0	Linear	Infinite
LA-353	2.0	Linear	40

SERIES LA-130 LADDER NETWORKS

Thirty-step unbalanced networks for limited mounting space. Housing is $1\frac{1}{4}''$ dia. To obtain culling position, add letter "Q" after type letters. LA-130 is 1.5 db per step, tapered; LA-131 is 2 db per step, tapered; LA-132 is 1.5 db per step, linear; LA-133 is 2 db per step, linear. LA-132 and LA-133 have detents. All have cutoff.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., LA-130-E): A, B, C, K, KU, KG, D, E, EF, F or G. See table for impedances. Series 131 and 133 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
LA-130 or 131	\$35.57	\$28.68	\$23.89
LA-132 or 133	36.24	29.28	24.39

SERIES LA-730 LADDER NETWORKS

Thirty-step unbalanced networks supplying wide range of control. LA-730 and LA-731 have smooth taper, recommended as mixer controls. LA-732 and LA-733 not tapered, recommended as master gain controls or for use in measuring equipment. Add "Q" for culling position. LA-730 and LA-732 are 1.5 db per step; LA-731 and LA-733 are 2 db per step. All have cut off position. LA-732 and LA-733 have detents.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., LA-732-B): A, B, C, K, KU, KG, D, E, EF, F or G. See table for impedances. Series 731, 732 and 733 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
LA-730 or 731	\$32.72	\$26.86	\$22.39
LA-732 or 733	33.61	27.59	22.99

SERIES LA-120 LADDER NETWORKS AND CP-120 POTENTIOMETERS

Smallest step-type (20 steps) attenuators. Dia., $1\frac{1}{4}''$. Adapted to portable amplifiers and tape recorders. Culling position available on ladder. Two db per step. LA-120 is tapered; LA-122 is not tapered, has detents; CP-120 is not tapered, has detents; CP-124 is tapered.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., LA-122-BJ): LA-120 and -122, A, B, BJ, C, K, KU, KG, D, E, EF, F or G; CP-120 and -124, M, P, R, S, T, W, X or Y. See table for impedances.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
LA-120	\$27.09	\$21.71	\$17.96
LA-122	27.76	22.31	18.46
CP-120	21.31	16.70	13.69
CP-124	20.38	15.97	13.09

BALANCED LADDER NETWORKS

SERIES BAL-255—20 STEPS

For limited mounting space. BAL-255 tapered to infinity, no detents, recommended as mixer. BAL-256, 257 and 258 may be used as master gain controls, have detents, are linear. BAL-256 is 2 db per step, has cutoff position; BAL-257 is 2 db per step, 40 db total; BAL-258 is 1.5 db per step, 30 db total. Culling position avail.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., BAL-255-E): A, B, K, KU, KG, D, E, EF, F or G. See table for impedances. Series 256 and 258 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
BAL-255	\$46.33	\$37.80	\$31.25
BAL-256, 257 and 258	47.26	38.56	31.88

SERIES BAL-730—30 STEPS

Wide range of attenuation in $2\frac{1}{4}''$ dia. housing. BAL-730 is suggested mixer, has 1.5 db steps, tapered, no detents. BAL-731, 732 and 733 are suggested masters, have detents. BAL-731 has 1.5 db steps, no taper, cutoff position. BAL-732 has 1.5 db steps, no taper, 45 db total. BAL-733 has 2 db steps, no taper, cutoff.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., BAL-731-A): A, B, C, K, KU, KG, D, E, EF, F or G. See table for impedances. Series 730 and 732 not available in C. Series 731 and 733 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
BAL-730	\$58.97	\$47.95	\$39.96
BAL-731, 732 and 733	59.93	48.73	40.61

SERIES BAL-330—30 STEPS

Recommended for broadcasting and recording systems, where a greater control range is needed. BAL-330 is suggested mixer, is tapered to infinity, has 1.5 db steps. BAL-331, 332 and 333 are suggested masters, have detents. BAL-331 is linear, has cutoff, 1.5 db steps. BAL-332 is linear, has 1.5 db steps, 45 db total. BAL-333 is linear, has cutoff, 2 db steps.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., BAL-330-G): A, B, C, K, KU, KG, D, E, EF, F or G. See table for impedances. Series 330 and 332 not available in C. Series 331 and 333 not available in EF.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
BAL-330	\$63.64	\$51.88	\$43.23
BAL-331, 332 and 333	64.61	52.66	43.89

BALANCED "H" NETWORKS

SERIES BH-320—20 STEPS

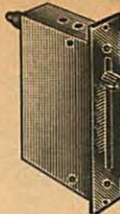
Two bridged-T networks on a common shaft. Each deck is a complete unbalanced T attenuator which is connected to each side of the balanced transmission line. Each T has half the impedance but same attenuation as the balanced-H, e. g., a 600-ohm H is made of two 300-ohm T sections. All are linear, have detents. BH-320 has 2 db steps, 40 db total. BH-321 has 1.5 db steps, 30 db total. BH-322 has 1 db steps, 20 db total. BH-323 has 0.5 db steps, 10 db total and is suggested vernier; others are suggested masters.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., BH-323-F): A, B, C, K, KU, KG, D, E, F or G. See table for impedances.

Daven Series	Net Each, Lots of		
	1-4	5-9	10-24
BH-320, 321, 322, 323	\$76.25	\$64.50	\$53.32

PRINTED CIRCUIT

SLIDE ATTENUATORS



Designed for audio program applications requiring control of multiple units with one hand (max. 3 oz. pressure needed). Gold-plated contacts; noise free operation; long life. Contacts protected from dust, foreign objects and accidental spills. Flat-faced for flush or escutcheon mounting; vertical or horizontal. Special escutcheons for mounting

1, 2, 3 and 4 units together. Available in any input and output impedance (specify). Ladders and "T" attenuators available with culling position (add Q to prefix), potentiometers are not. Series 1080: No taper, with off pos.; 20 steps, 2 db/step. Series 1081: Tapered to off; 20 steps, 2 db/step. Series 1090: No taper, with off pos.; 30 steps, 2 db/step. Series 1091: Tapered to off; 30 steps, 1 1/2 db/step. All units supplied with knobs, plugs and connectors. Specify E for end connector or R for rear connector (e.g., ELA-1081). Size: 1 1/4" w. x 3 1/2" d. x 6" h.

Daven Series*	Net Each, Lots of		
	1-4	5-9	10-24
CP-1080, 1081†	\$38.00	\$28.50	\$24.40
CP-1090, 1091†	40.00	29.80	25.40
LA-1080, 1081	38.00	28.50	24.40
LA-1090, 1091	40.00	29.80	25.40
BAL-1080, 1081	58.00	43.00	36.80
BAL-1090, 1091	61.00	45.50	38.90
T-1080, 1081	58.00	43.00	36.80
T-1090, 1091	61.00	45.50	38.90

PRINTED CIRCUIT ATTENUATORS

Ideal for broadcast equipment and PA systems; use as mixer or master controls in broadcast recording console. Compact design facilitates use in portable equipment. All units have 20 steps with 2 db/step. Accuracy: $\pm 5\%$. Frequency Response: No appreciable change in db attenuation or terminal impedance over a 0-20,000 cps range. Switch Noise Level: None indicated at low levels. Rotation: 300° CCW. Shaft: 0.250" dia. Shield: Fully enclosed and dust-proof. Mounting: Single hole. Double hole bracket available. Contact Spacing: 15° between centers. Rating: 0.6 watt to 100 W; up to 2.5 watts to 200 W. Ladders and "T" attenuators available with culling position (add Q to prefix), potentiometers are not. Knob and indicator plate furnished at slight additional cost.

Terminal Impedance: For desired impedance, add corresponding suffix to model number (e.g., BAL-1021-F): LA-1020 and LA-1022, K, KU, G and UG. BAL-1020 and BAL-1021, A, B, K, KU, KG, D, E, EF, F and G. Series BAL-1021 not available in EF. T-1020 and T-1021, A, B, C, K, KU, KG, D, E, F and G. CP-1020 and CP-1024, T. See table for impedances.

CP-1020†, 1024†	\$13.20	\$10.25	\$ 8.70
LA-1020†, 1022†	13.20	10.25	8.70
BAL-1020†, 1021†	25.08	19.48	16.53
T-1020†, 1021†	25.08	19.48	16.53

*CP, single potentiometer. LA, unbalanced ladder. BAL, balanced ladder. "T", T-network. †Available in dual potentiometer. DCP, same price as CP. †Avail. in double deck, 2CP and 2LA, write for prices. †No taper, last step cut-off (Infinity); detents; †Tapered on last steps to cut-off (Infinity); no detents.

TERMINAL IMPEDANCE CODE

Terminal Impedance	Code Letter	Terminal Impedance	Code Letter
30/30	AH	500/500	F
30/60	AH	300/600	UG
50/50	B	600/600	M
50/100	BJ	10,000	G
125/125	C	20,000	P
150/150	K	25,000	R
150/300	KU	50,000	S
150/500	KF	100,000	T
150/600	KG	200,000	W
200/200	D	250,000	X
250/250	E	500,000	Y
250/500	EF		

Daven Networks, Potentiometers

"T" NETWORKS

255 SERIES 20 STEPS

For mounting, two holes tapped for 8-32 machine screws, 1/4" apart on the horizontal center line. Diameter, 2 1/4", back-of-panel depth, 2 1/4". Shipping Wt., 11 oz.

Daven No.	Net Each		
	1-4	5-9	10-24
T-255	\$48.25	\$36.59	\$30.24
T-256, 257, 258	49.14	37.34	30.86

Dials and Knobs—Net Each.....\$2.25

Daven No.	Decibel per Step	Characteristic	Decibel Total
T-255	2.0	Tapered	Infinite
T-256	2.0	Linear	Infinite
T-257	2.0	Linear	40
T-258	1.5	Linear	30

Daven No.	Terminal Imped.	Daven No.
T-255-A	30/30	T-256-A
T-255-B	50/50	T-256-B
T-255-C	125/125	T-256-C
T-255-K	150/150	T-256-K
T-255-KF	150/500	T-256-KF
T-255-KG	150/600	T-256-KG
T-255-D	200/200	T-256-D
T-255-E	250/250	T-256-E
T-255-F	500/500	T-256-F
T-255-G	600/600	T-256-G
T-257-A	30/30	T-258-A
T-257-B	50/50	T-258-B
T-257-C	125/125	T-258-C
T-257-K	150/150	T-258-K
T-257-KF	150/500	T-258-KF
T-257-KG	150/600	T-258-KG
T-257-D	200/200	T-258-D
T-257-E	250/250	T-258-E
T-257-F	500/500	T-258-F
T-257-G	600/600	T-258-G

320 SERIES

The T-320 attenuator is a twenty step "T" type network offered for general sound control applications. This unit has zero initial loss, constant impedance both in and out at all settings of the control and a quiet, rugged, self-cleaning switch for low level control. The series T-320 is offered as a main gain control. The series T-321 is supplied with a taper on the last three steps before cut-off and is an ideal twenty-step mixing control. 2.0 decibels per step, infinite, T-320 attenuator linear, T-321 tapered. Accuracy of resistance $\pm 5\%$. Insertion loss: Zero for 1:1 impedance ratio and minimum loss for unequal impedance. Net Weight, 12 oz.

Daven No.	Net Each		
	1-4	5-9	10-24
T-320	\$36.98	\$29.85	\$24.88
T-321	36.31	29.25	24.38

Dials and Knobs—Net Each.....\$2.25

Daven No.	Terminal Imped.	Daven No.
T-320-A	30/30	T-321-A
T-320-C	50/50	T-321-C
T-320-K	125/125	T-321-K
T-320-KF	150/150	T-321-KF
T-320-KG	150/600	T-321-KG
T-320-D	200/200	T-321-D
T-320-E	250/250	T-321-E
T-320-EF	250/500	T-321-EF
T-320-F	500/500	T-321-F
T-320-G	600/600	T-321-G

330 SERIES

The T-330 attenuator is designed for use as either a mixing or master gain control in broadcasting speech input equipment, sound recording studios and sound projection systems. 30 steps of 1.5 decibel per step, infinite. Type T-330 tapered, T-331 linear. Accuracy of resistance, $\pm 5\%$.

Daven No.	Net Each		
	1-4	5-9	10-24
T-330	\$43.53	\$35.23	\$29.46
T-331	44.20	35.83	29.96

Dials and Knobs—Net Each.....\$2.25

Daven No.	Terminal Imped.	Daven No.
T-330-A	30/30	T-331-A
T-330-B	50/50	T-331-B
T-330-K	125/125	T-331-K
T-330-KF	150/150	T-331-KF
T-330-KG	150/500	T-331-KG
T-330-D	150/600	T-331-D
T-330-E	200/200	T-331-E
T-330-F	250/250	T-331-F
T-330-F	500/500	T-331-F
T-330-G	600/600	T-331-G

345 SERIES

Forty-five steps; tapered on last steps to cutoff (infinity); detents not attached. Accuracy, $\pm 5\%$. Diameter, 2 3/4", back-of-panel depth, 2 1/4". Two 8-32 holes for mounting; removable cover. Provide appreciable total attenuation in relatively small steps. Circuit is "Bridged T". To order culling position, change desired model number to "TQ".

Daven No.	Net Each		
	1-4	5-9	10-24
T-345, 346, 347	\$69.21	\$56.36	\$47.43

Dials and Knobs—Net Each.....\$2.25

Daven No.	Decibel Per Step	Characteristic	Decibel Total
T-345	0.5	Tapered	Infinite
T-346	0.75	Tapered	Infinite
T-347	1.0	Tapered	Infinite

Daven No.	Imped.	Daven No.
T-345-B	50/50	T-346-B
T-345-C	125/125	T-346-C
T-345-K	150/150	T-346-K
T-345-KF	150/500	T-346-KF
T-345-KG	150/600	T-346-KG
T-345-D	200/200	T-346-D
T-345-E	250/250	T-346-E
T-345-EF	250/500	T-346-EF
T-345-F	500/500	T-346-F
T-345-G	600/600	T-346-G
T-347-B	50/50	.....
T-347-C	125/125	.....
T-347-K	150/150	.....
T-347-KF	150/500	.....
T-347-KG	150/600	.....
T-347-D	200/200	.....
T-347-E	250/250	.....
T-347-EF	250/500	.....
T-347-F	500/500	.....
T-347-G	600/600	.....

FIXED ATTENUATORS (T-NETWORK)



Resistive networks having fixed impedances and losses. Employ accurately calibrated card-type non-inductive resistors, rigidly mounted inside a metal shield.

Daven No.	Net Each		
	1-4	5-9	10-24
T-950	\$5.33	\$4.80	\$4.00

RANGE OF DB LOSS VALUES AVAILABLE

Impedance		Decibel Loss*	
Input	Output	Min.	Max.
30	30	0	50
30	50	6.47	55
30	150	12.53	60
30	200	13.91	60
30	250	14.95	65
30	500	18.11	65
30	600	18.92	65
50	30	6.47	55
50	50	0	55
50	150	9.96	60
50	200	11.44	65
50	250	12.54	65
50	500	15.79	65
50	600	16.63	70
150	30	12.53	60
150	50	9.96	60
150	150	0	65
150	200	4.77	70
150	250	6.47	70
150	500	10.52	70
150	600	11.43	75
150	3000	18.92	80
250	150	6.47	65
250	200	4.18	70
250	250	0	70
250	500	7.65	75
250	600	8.73	75
500	30	18.11	65
500	50	15.79	65
500	150	10.52	70
500	200	8.96	75
500	250	7.65	75
500	500	0	75
500	600	3.76	80
600	30	18.92	65
600	50	16.63	70
600	150	11.43	75
600	200	9.95	75
600	250	8.73	75
600	500	3.76	80
600	600	0	80

*Pad can be supplied in any decibel loss within limits noted.

POTENTIOMETERS

CP-350

Twenty-step potential dividers for use in portable equipment; fit in small mounting space. Carbon type resistors; accuracy, $\pm 5\%$; 1 1/4" diameter; 1 1/4" depth behind panel; 250" shaft diameter. Mounts in single hole to clean 3/8" bushing.

Daven No.	Net Each		
	1-4	5-9	10-24
CP-354	\$16.75	\$13.08	\$10.69
CP-350, 352, 353, 355	17.42	13.75	11.19

Dials and Knobs—Net Each.....\$2.25

Daven No.	Decibels Per Step	Characteristic	Decibel Total
CP-350	2	Linear	Infinite
CP-352	1.5	Linear	Infinite
CP-353	3	Linear	Infinite
CP-354	2	Tapered	Infinite
CP-355	5	Linear	100

Daven No.	Impedance	Daven No.
CP-350-M	10,000	CP-352-M
CP-350-P	20,000	CP-352-P
CP-350-R	25,000	CP-352-R
CP-350-S	50,000	CP-352-S
CP-350-T	100,000	CP-352-T
CP-350-W	200,000	CP-352-W
CP-350-X	250,000	CP-352-X
CP-350-Y	500,000	CP-352-Y
CP-353-M	10,000	CP-354-M
CP-353-P	20,000	CP-354-P
CP-353-R	25,000	CP-354-R
CP-353-S	50,000	CP-354-S
CP-353-T	100,000	CP-354-T
CP-353-W	200,000	CP-354-W
CP-353-X	250,000	CP-354-X
CP-353-Y	500,000	CP-354-Y
CP-355-S	50,000	.....
CP-355-T	100,000	.....
CP-355-W	200,000	.....
CP-355-X	250,000	.....
CP-355-Y	500,000	.....

P-350 WIRE-WOUND

Popular-priced potential dividers for use in portable equipment. Twenty steps. Accuracy, $\pm 2\%$. Types P-350, P-351 and P-353 have detents.

Daven No.	Decibels Per Step	Characteristic	Decibel Total
P-350	2	Linear	Infinite
P-351	1.5	Linear	Infinite
P-353	3	Linear	Infinite
P-354	2	Tapered	Infinite

IMPEDANCE CODE LETTERS*

Terminal Imped.	Code Letter	Terminal Imped.	Code Letter
5000	L	25000	R
10000	M	50000	S
20000	P		

*Add at end of Model Number.

Daven No.	Net Each		
	1-4	5-9	10-24
P-350, 351, 353-L, M or P	\$27.29	\$22.40	\$18.53
P-350, 351, 353-R	34.56	28.30	23.40
P-350, 351, 353-S	41.28	33.80	27.95
P-354-L, M or P	26.32	21.62	17.88
P-354-R	33.60	27.51	22.75
P-354-S	40.32	33.01	27.30

VU METER MULTIPLIERS

Provide 20 steps of attenuation, 2 db per step, when used as a VU meter attenuator. VU meters, when used as program monitors, are bridged across a 600-ohm line with attenuator and fixed resistor inserted between the line and the meter, as an isolating network to extend the meter range and reduce meter distortion.

Daven No.	Net Each		
	1-4	5-9	10-24
TA-1000 (-1 to -6)	\$53.07	\$43.09	\$36.14

Dials and Knobs—Net Each.....\$2.25

Daven No.	DB Range	Impedance
TA-1000-1*	1 mw +4 to +40	7100/3900
TA-1000-2†	and off	7500/3900
TA-1000-3‡		6900/3900
TA-1000-4*	+4 to +42 and off	7100/3900
TA-1000-5‡		3900/3900
TA-1000-6†		7500/3900

*Zero adjust rheostat req.; 800-1000 ohms.
 †Zero adjust rheostat req.; 1200-1500 ohms.
 ‡No zero adjust rheostat needed.
 §External 3600 ohm series resistor needed.