

### SUB-MINIATURE VOLUME CONTROLS

Linear taper, extremely smooth for quiet operation.  $\frac{1}{2}$ " dia. fits into  $\frac{1}{4}$ " hole. Shaft  $\frac{3}{16}$ " dia. Thread length  $\frac{7}{32}$ ", shaft length  $\frac{9}{16}$ ",  $1\frac{1}{8}$ " length overall. Supplied with mounting hardware. Specify resistance. .1watt, 20% tolerance, 300° rotation. (One per package.) Solderable terminals.

*25-290.....	2K ohms Linear Taper	*25-293.....	50K ohms Linear Taper
*25-291.....	5K ohms Linear Taper	*25-294.....	100K ohms Linear Taper
*25-292.....	10K ohms Linear Taper	25-295.....	250K ohms Linear Taper



### VOLUME CONTROL LESS SWITCH

Replacement controls available in the eight most popular values. High quality carbon elements which have high stability under most conditions.  $\frac{15}{16}$ " dia.,  $\frac{1}{2}$ " deep,  $\frac{1}{4}$ " dia. shaft,  $\frac{1}{4}$ " thread length,  $\frac{5}{16}$ " shaft length,  $\frac{5}{16}$ " bushing, fits in  $\frac{3}{8}$ " hole. 25-324 Long shaft 2" bushing.  $\frac{1}{2}$  watt, 20% tolerance, 320° rotation. Supplied with hardware. Solderable terminals.

25-324 Long Shaft.....	2K Linear Taper	25-328.....	100K Linear Taper
25-325.....	5K Linear Taper	25-329.....	250K Linear Taper
25-326.....	10K Linear Taper	25-330.....	500K Audio Taper
25-327.....	50K Linear Taper	25-331.....	1 Megohm Audio Taper



### MINIATURE CONTROLS WITH SWITCH

Designed to provide extremely smooth quiet operation. Semi-log (audio) taper. Fits  $\frac{5}{16}$ " hole in panels,  $\frac{1}{4}$ " shaft,  $\frac{13}{16}$ " long, including threads, size  $\frac{5}{8}$ " dia.,  $1\frac{1}{16}$ " long. Specify resistance.  $\frac{1}{2}$ watt, 20% tolerance, 300° rotation. SPST switch. Switch current 125v @ 3 amps.

25-316.....	5K Audio Taper	25-318.....	50K Audio Taper
25-317.....	10K Audio Taper	25-322.....	1 Megohm Audio Taper



### MINIATURE VOLUME CONTROLS

Replacement control less switch  $\frac{5}{8}$ " dia, fits  $\frac{9}{32}$ " hole. Shaft  $\frac{1}{4}$ " dia.,  $\frac{9}{16}$ " long including thread. Supplied with mounting hardware. Specify resistance.  $\frac{1}{4}$  watt, 20% tolerance, 300° rotation. Solderable terminals.

25-300.....	2K Linear Taper	25-305.....	250K Linear Taper
25-300A.....	1K Linear Taper	25-306.....	500K Audio Taper
25-301.....	5K Linear Taper	25-307.....	1 Megohm Audio Taper
25-302.....	10K Linear Taper	25-308.....	10K Audio Taper
25-303.....	50K Linear Taper	25-309.....	50K Audio Taper
25-304.....	100K Linear Taper	25-310.....	100K Audio Taper



### MINIATURE DUAL VOLUME CONTROLS

Extremely smooth action control with  $\frac{11}{16}$ " dia., fits into  $\frac{9}{32}$ " hole. Extra long thread  $\frac{9}{16}$ ", shaft  $\frac{1}{4}$ " dia. Circuit board mounting tabs. Shaft length  $\frac{1}{2}$ ".  $\frac{1}{4}$  watt, 20% tolerance, 300° rotation. 1" overall length. Solderable terminals.

25-395.....	5K Audio Taper	25-397.....	50K Audio Taper
25-396.....	10K Audio Taper	25-398.....	100K Linear Taper (.01 watt)



### MINIATURE MULTI-CLICK RATCHET CONTROLS-P.C. MOUNT 10 step

$\frac{11}{16}$ " dia. body,  $\frac{1}{4}$ " dia. shaft,  $\frac{9}{16}$ " shaft length, including threads, fits into  $\frac{9}{32}$ " hole.  $\frac{7}{8}$ " long overall.  $\frac{1}{4}$  watt, 20% tolerance, 300° rotation. Solderable terminals.

25-420.....	5K Linear Taper (.1 watt)	25-428.....	5K Audio Taper
25-421.....	10K Linear Taper (.1 watt)	25-429.....	10K Audio Taper
25-422.....	50K Linear Taper	25-430.....	50K Audio Taper
25-423.....	100K Linear Taper	25-431.....	100K Audio Taper
25-424.....	250K Linear Taper	25-432.....	250K Audio Taper
		25-433.....	500K Audio Taper



### MINIATURE MULTI-CLICK DUAL CONTROLS—40 STEP P.C. MOUNT

$\frac{11}{16}$ " dia.,  $1\frac{1}{4}$ " long overall,  $\frac{9}{32}$ " hole size,  $\frac{1}{4}$ " dia shaft,  $\frac{9}{16}$ " long shaft including threads.  $\frac{1}{4}$  watt, 20% tolerance, 300° rotation. Solderable terminals.

25-405.....	10K Linear Taper	25-410.....	10K Audio Taper
25-406.....	50K Linear Taper	25-411.....	50K Audio Taper
25-407.....	100K Linear Taper	25-412.....	100K Audio Taper



POTENTIOMETERS WITH AN \*ASTERISK\* NEXT TO THE PART NUMBER ARE BY SPECIAL ORDER ONLY, PLEASE CONTACT CALRAD FOR ORDERING REQUIREMENTS 323-465-2131

# CALRAD

## 25 Series - Controls

### SLIDE CONTROLS

Modernize your equipment with the use of Slide Controls that have rugged construction and extra smooth action. 20% tolerance. Solderable terminals.

4 7/16" Mounting Centers, 4 1 1/16" x 1/2" x 5/16" Including Terminals

**25-271** ..... 0.25 watt, 50K Linear Taper **25-276**..... 0.5 watt, 50K Audio Taper

**25-275** ..... 0.5 watt, 10K Audio Taper **25-277**..... 0.5 watt, 100K Audio Taper

3 5/32" Mounting Centers, 3 7/16" x 1/2" x 5/16" Including Terminals

**25-372** ..... 0.25 watt, 1K Linear Taper **25-379** ..... 0.125 watt, 100K Audio

**25-376** ..... 0.25 watt, 250K Linear Taper

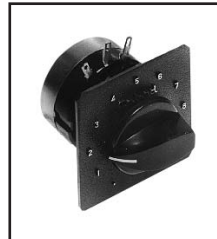
DUAL GANG SLIDE 2 1 1/16" Mounting Centers, 2 7/16" x 3/4" x 7/32" P.C. Leads

**25-390** .....10K Dual Linear Taper **25-391**.....25K Dual Linear Taper



### 25-341 "L" PAD\*

Flat frequency response, natural reproduction is obtained by adjusting for the difference in efficiency ratios. Adjustment  $\pm 17\%$  of the normal rated impedance. "L" pads are 8-ohm impedance. Black plastic contour knob. Mounts in 3/8" hole. Bushing 3/4" long. 10-25 watts. 0-40dB attenuation. 300° rotation. Solderable terminals.



### 25-342A STEREO "L" PAD\*

Single shaft control for maintaining proper output level. Providing positive equal audio power to each speaker. Has 3/8" x 32 threaded bushing 7/8" long. Impedance: 8 ohms. 10-25 watts. Solderable terminals. See wiring diagram on page 26



### 50 WATT HEAVY DUTY AUDIO LEVEL CONTROLS ("L" PAD)

**25-352 MONAURAL\*** (Body Size: 2" x 2" x 1 1/16" Hole Size 3/8")

**25-352-S**, Same as 25-352 but with short shaft.

**25-353 STEREO\*** (Body Size: 2" x 2" x 1 3/4" Hole Size 3/8")

Specially designed "L-Pads" to be used in high power audio or speaker systems. Made of rugged high quality materials for neat appearance and smooth operation. 1/2" long threads are provided for ease in mounting in thick cabinets. Complete with knob, hardware for mounting. Specify monaural or stereo. Impedance: 8 ohms. See wiring diagram on page 26.



### 100 WATT HEAVY DUTY AUDIO ATTENUATORS ("L" PAD)

**25-452 MONAURAL\***

**25-453 STEREO\***

Controls speaker volume for remote location. Rated up to 100 watts at 8 ohms. Extra long 3/4" bushing for mounting in standard 3/8" diameter hole. Complete with front plate and knob. Heavy solderable terminals. See wiring diagram on page 26.

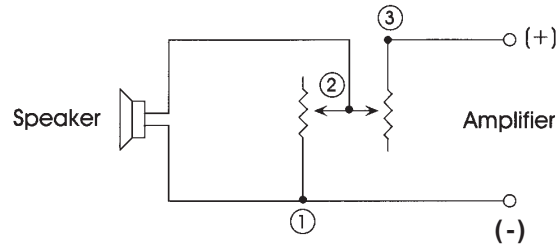
Dimensions: 5.5"(W) X 3.14"(H) X 3.75"(D)



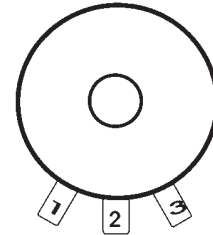
# CALRAD

## 25 Series - Speaker Attenuators

\*WIRING DIAGRAM  
FOR 25-341, 25-342A,  
25-352, 25-353, 25-452,  
25-453

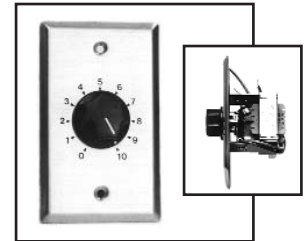


Wire 1,3 Amp, 1,2 Speaker



### 25-351 10 WATT, 70 VOLT AUDIO LINE ATTENUATOR - MONO 25-351A 10 WATT, 8 OHM AUDIO LINE ATTENUATOR - MONO

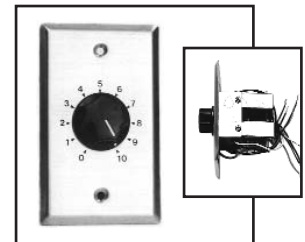
Flush mount auto transformer type. Fits into standard single gang box or ring. Excellent for use in home, paging and background music systems. Features a 10-position volume selector switch with 3dB step attenuation and a positive off position. Complete with stainless steel mounting plate, knob, with terminal block connectors. Depth 2 1/8". First 2 steps are 6dB, others are 3dB.



### 25-339 10 WATT, 8 OHM AUDIO LINE ATTENUATOR - STEREO

### 25-339A 10 WATT, 70 VOLT AUDIO LINE ATTENUATOR - STEREO

Same as 25-351 (Stereo Version). 10 Watt-70 Volt. Dimensions: 2 1/2" deep x 2 1/2" high x 2" width (less shaft and knob).



### 25-357 20 WATT, 8 OHM AUDIO LINE ATTENUATOR - STEREO

### 25-357A 20 WATT, 70 VOLT AUDIO LINE ATTENUATOR - STEREO

### 25-354 25 WATT, 8 OHM STEREO ATTENUATOR

Single-gang box mount

### 25-355 40 WATT, 8 OHM STEREO ATTENUATOR

Designer style. Click type attenuators with isolation transformers. 3 dB (10) step attenuation. Comes with terminal block connectors. White insert and knob with pointer. Accepts up to 14 avg cable. 2.3" deep. Single-gang box mount.



### 25-360

### 70 WATT, 8 OHM AUDIO LINE ATTENUATOR - STEREO

12 step design, each step being 3dB. The last 4 steps are 6dB each. 70 watts per channel, 150 watts peak. White insert and knob with pointer. Accepts up to 14 avg cable. Removable terminal blocks cable installation. 2.7" deep.



# CALRAD

## 25 Series - Speaker Attenuators & Accessories

### 25-361 8 OHM STEREO MULTIPLE SPEAKER ATTENUATOR

12 step design for a total attenuation of 42dB. Matches impedance to amplifier and allows 1 to 16 attenuators to be used with one amplifier. Selectable index washer under knob for setting attenuation. Power handling 100 watts, 200 watts peak, 8 ohm output. White insert and knob with pointer. Accepts up to 14 awg cable. Terminal block cable installation. 2.7" deep.



### 25-362 30 WATT, 70 VOLT STYLE MONO ATTENUATOR

Designer style. Click type 70 volt attenuator with isolation transformers. (10) step 8-3dB, 2-6dB steps for attenuation. Comes with terminal block connectors. White insert and knob with pointer. Accepts up to 14 awg cable. 2.3" deep.



*New Item*

### 28-145

#### COLORED COVERS FOR CALRAD AUDIO ATTENUATORS

These designer inserts are designed to be used with Calrad 25-360, 25-361 & 25-362 attenuators. Easy to remove insert comes with matching knob. Provides the installer the ability to match most decor colors.

28-145-AL.....Almond    28-145-IV.....Ivory  
 28-145-BK.....Black    28-145-WH.....White



### 25-356 10 WATT, 70 VOLT MONO ATTENUATOR

10-step attenuation for high level audio signal. Low insertion loss. Controls up to 10 watts of speaker load. Handles 70 volts RMS input. Stainless steel panel. Easy installation. Comes with terminal block connectors. White wall plate and knob with pointer.



### 25-359 8 OHM, 25 WATT ATTENUATOR WITH A/B SWITCH.

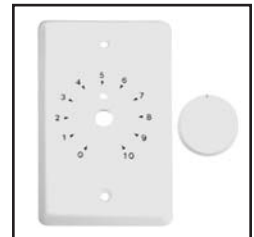
Designer style. Double gang configuration. Screw type connectors for attaching wire. Comes with wall plate and with terminal block connectors. White inserts, wall plate and knob with pointer. Accepts up to 14 awg cable. 2.3" deep.



### WHITE AND IVORY KNOBS AND PLATES

For use with 25-351, 25-351A, 25-339, 25-339A, 25-357, and 25-357A. Plates have numbers 0-10. Knob is 1 5/16" in diameter and accepts 1/4" shafts.

85-565-IV    Ivory Knob  
 85-565-W    White Knob  
 85-565-ID    Ivory Designer Knob  
 85-565-WD    White Designer Knob  
 28-140-IV    Ivory Plate  
 28-140-W    White Plate



## 25 Series - Desktop Volume Controls & Transformers

### HI-POWER MATCHING TRANSFORMER

45-788 50 WATT  
45-789 100 WATT

These hi-power matching transformers are used to convert 8 ohm, low impedance to 70 volt line high impedance. It is applicable for all types of multi-speaker installations. Two are required for stereo applications.

#### Specifications for 45-788 and 45-789:

Primary Tap.....Common, From Main Amplifier - 8Ω  
Frequency Response (-2dB)..... 30-20,000 Hz  
Efficiency..... 85% min.  
Terminal..... Solder-type  
Secondary Tap: 45-788 - Common, 70 V (100Ω), 50 watts  
45-789 - Common, 70 V (50Ω), 100 watts  
Size:..... 45-788: 2.12"(H) x 2.60"(W) x 2.36"(D)  
45-789: 3.25"(H) x 3.75"(W) x 2.75"(D)



45-788 & 45-789

Use CALRAD products for all your A/V needs

CALRAD SPEAKER BRACKETS  
Page 23



CALRAD SPEAKERS  
Pages 20-23



CALRAD SPEAKER CABLE  
Page 113



CALRAD ATTENUATORS  
Pages 25-28



CALRAD SPEAKER TERMINALS  
Pages 39-40

CALRAD SPEAKER SELECTORS  
Pages 59-60



### 25-345 60 WATT STEREO DESKTOP LOUDSPEAKER CONTROL CENTER

Individual volume controls for each speaker L+R. Input/Output through 4MM gold plated terminals. Can be used with CALRAD 30-605 banana plugs. Accepts 12-18 gauge cable. Sturdy metal chassis with black finish.

Dimensions: W = 5.5" X H = 3.14" X D = 3.75"



### 25-346 60 WATT STEREO DESKTOP LOUDSPEAKER CONTROL

Heavy duty rocker switches turns On/Off main, remote speakers. Individual volume controls for each speaker L+R. Input/Output through 4mm gold plated terminals. Can be used with CALRAD 30-605 banana plugs. Accepts 12-18 gauge cable. Sturdy metal chassis with black finish.

Dimensions: W = 8" X H = 3.5" X D = 5"



### 25-347 70 WATT STEREO DESKTOP ATTENUATOR

Transformer designed attenuator. Input/Output through UV approved screwless, push-type terminals accepts up to 14 AWG cable. Stereo headphone jack for private listening, shuts off speakers when headphone plug is inserted into jack. Sturdy metal chassis with light grey finish.

Dimensions: W = 7" X H = 1.25" X D = 3"

