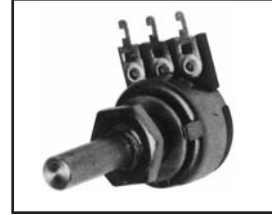


### SUB-MINIATURE VOLUME CONTROLS

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 $\Omega$ Linear Taper
*25-294 .....	100K $\Omega$ Linear Taper
*25-295 .....	250K $\Omega$ 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 $\Omega$ Linear Taper	*25-328.....	100K $\Omega$ Linear Taper
*25-325 .....	5K $\Omega$ Linear Taper	*25-329.....	250K $\Omega$ Linear Taper
*25-326.....	10K $\Omega$ Linear Taper	*25-330.....	500K $\Omega$ Audio Taper
*25-327.....	50K $\Omega$ Linear Taper	*25-331.....	1 M $\Omega$ 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,  $1\frac{3}{16}$ " long, including threads, size  $\frac{5}{8}$ " dia.,  $1\frac{9}{16}$ " long. Specify resistance.  $\frac{1}{2}$  watt, 20% tolerance, 300° rotation. SPST switch. Switch current 125v @ 3 amps.

*25-316.....	5K $\Omega$ Audio Taper	*25-318.....	50K $\Omega$ Audio Taper
*25-317.....	10K $\Omega$ Audio Taper	*25-322.....	1 M $\Omega$ 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 $\Omega$ Linear Taper	*25-305 .....	250K $\Omega$ Linear Taper
25-300A.....	1K $\Omega$ Linear Taper	*25-306.....	500K $\Omega$ Audio Taper
25-301 .....	5K $\Omega$ Linear Taper	*25-307 .....	1 M $\Omega$ Audio Taper
25-302 .....	10K $\Omega$ Linear Taper	*25-308.....	10K $\Omega$ Audio Taper
*25-303 .....	50K $\Omega$ Linear Taper	*25-309.....	50K $\Omega$ Audio Taper
*25-304 .....	100K $\Omega$ Linear Taper	*25-310.....	100K $\Omega$ Audio Taper



### MINIATURE DUAL VOLUME CONTROLS

Extremely smooth action control with  $1\frac{1}{16}$ " 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 $\Omega$ Audio Taper	*25-397.....	50K $\Omega$ Audio Taper
25-396 .....	10K $\Omega$ Audio Taper	*25-398.....	100K $\Omega$ Linear Taper (.01 watt)



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

$1\frac{1}{16}$ " 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 $\Omega$ Linear Taper (.1 watt)	*25-428 .....	5K $\Omega$ Audio Taper
25-421 .....	10K $\Omega$ Linear Taper (.1 watt)	*25-429 .....	10K $\Omega$ Audio Taper
*25-422 .....	50K $\Omega$ Linear Taper	*25-430 .....	50K $\Omega$ Audio Taper
25-423 .....	100K $\Omega$ Linear Taper	*25-431 .....	100K $\Omega$ Audio Taper
25-424 .....	250K $\Omega$ Linear Taper	*25-432.....	250K $\Omega$ Audio Taper
		25-433.....	500K $\Omega$ Audio Taper



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

$1\frac{1}{16}$ " 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 $\Omega$ Linear Taper	*25-410.....	10K $\Omega$ Audio Taper
*25-406 .....	50K $\Omega$ Linear Taper	*25-411.....	50K $\Omega$ Audio Taper
25-407.....	100K $\Omega$ Linear Taper	*25-412.....	100K $\Omega$ 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**.....25 watt, 50KΩ Linear Taper      **25-276**.....0.5 watt, 50KΩ Audio Taper

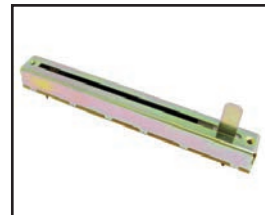
**25-275**.....5 watt, 10KΩ Audio Taper      **25-277**.....5 watt, 100KΩ Audio Taper

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

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

Dual gang slide 2 1 1/16" Mounting Centers, 2 7/8" x 3/4" x 7/32" P.C. Leads

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



### Pro Audio Use

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

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



### Pro Audio Use

#### 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: 8Ω. 10-25 watts. Solderable terminals. See wiring diagram on page 22.



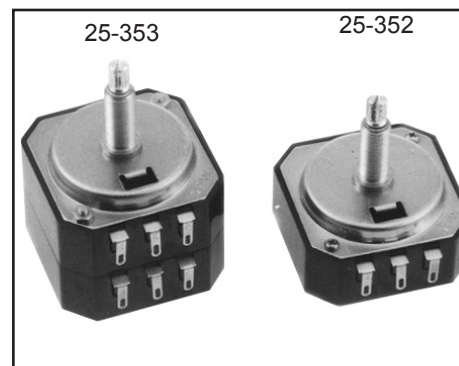
### 50 WATT HEAVY DUTY AUDIO LEVEL CONTROLS ("L" PAD)

**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: 8Ω. See wiring diagram on page 22.



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

**25-452 MONAURAL\***

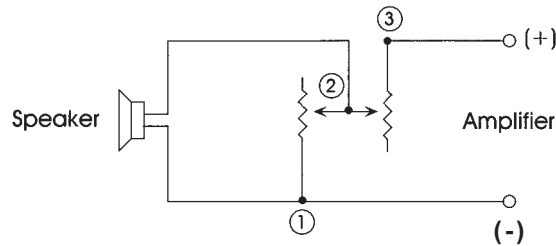
**25-453 STEREO\***

Controls speaker volume in a remote location. Rated up to 100 watts at 8Ω. 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 22. Dimensions: 5.5"(W) X 3.14"(H) X 3.75"(D)

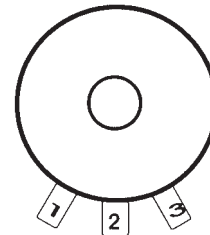


## 25 Series - Speaker Attenuators

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



Wire 1,3 Amp, 1,2 Speaker

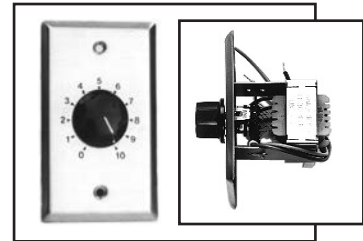


### Commercial or Residential Use

#### 25-351 10 WATT 70 VOLT AUDIO LINE ATTENUATOR - MONO

#### 25-351A 10 WATT 8Ω AUDIO LINE ATTENUATOR - MONO

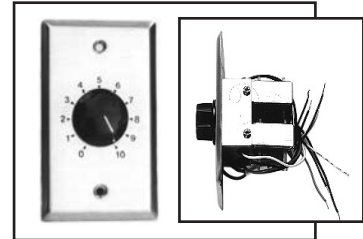
Flush mount auto transformer type. Fits into standard single gang box or ring. Excellent for use in home, paging and background music systems. Features a 10-position volume selector switch with 3dB step attenuation and a positive off position. Complete with stainless steel mounting plate, knob, with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



#### 25-339 10 WATT 8Ω 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 8Ω AUDIO LINE ATTENUATOR - STEREO

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

#### 25-354 25 WATT 8Ω STEREO ATTENUATOR

Single-gang box mount

#### 25-355 40 WATT 8Ω STEREO ATTENUATOR

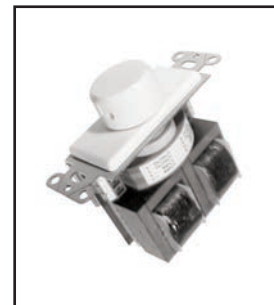
Click type attenuators with isolation transformers. 3 dB (10) step attenuation. Comes with terminal block connectors. White insert and knob with pointer. Accepts up to 14 awg cable. 2.3" deep. Single-gang box mount.



#### 25-360

#### 70 WATT 8Ω 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 awg cable. Removable terminal blocks cable installation. 2.7" deep.



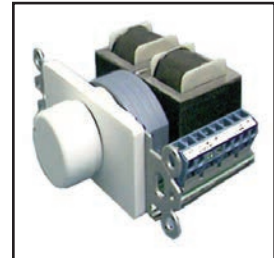
# CALRAD

## 25 Series - Speaker Attenuators & Accessories

### 25-361

#### 8 OHM STEREO MULTIPLE SPEAKER ATTENUATOR

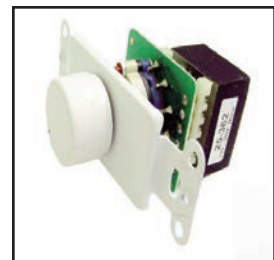
12 step design for a total attenuation of 42dB. Matches impedance to amplifier and allows 1 to 16 attenuators to be used with one amplifier. Selectable index washer under knob for setting attenuation. Power handling 100 watts, 200 watts peak, 8Ω output. White insert and knob with pointer. Accepts up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



### 25-362

#### 30 WATT 70 VOLT MONO ATTENUATOR

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.



### 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.



### 28-145

#### COLORED DESIGNER STYLE INSERT COVERS

Designed to be used with the Calrad 25-360, 25-361 and 25-362 attenuators. Easy to remove designer style insert comes with matching colored knob.

28-145-AL.....Almond

28-145-BK.....Black

28-145-WH.....White

28-145-IV.....Ivory



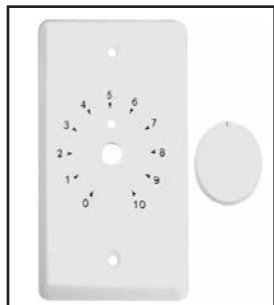
#### WHITE AND IVORY KNOBS AND PLATES

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-ID Ivory Designer Style Knob

85-565-WD White Designer Style Knob

28-140-W White Wall Plate



## 25 Series - Desktop Volume Controls & Transformers

### 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".

