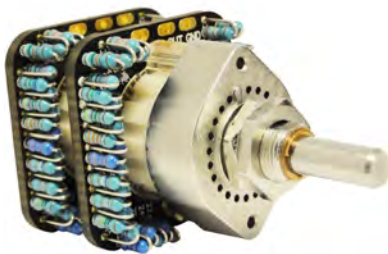




Two-channel SMT version



**Two-channel THT version
(comes non-populated)**

Description

The A47 audio switch series incorporates a PCB based switch contact system that is specifically designed to meet audiophile requirements for superb sonic performance.

These series attenuators provide 47 positions and are available from 1 to 6 channels. Switch torques of 1.5, 2.5 and 5 Ncm are standard, populated with low-noise, high precision SMT resistors (standard input impedances are 10k, 25k, 50k, 100k or 600k Ohms), or non-populated THT versions which can be populated by the customer.

The A47 series feature Elma's hallmark indexing feel for superior tactile feedback.

Features

- Exceptional sonic performance with precise switch feel
- 47 positions, with selectable end-stops
- Low profile; 36 by 36 mm
- Up to 6 channels
- Available with pre-populated thin-film SMT resistors or non-populated THT versions
- 10k, 25k, 50k, 100k or 600k Ohms standard input impedance
- Low-bounce contact system with 3 micron gold plating
- Motorized, IR controllable versions available
- Free, downloadable Excel resistor calculator tool

Possible Customization

- PCB design and tapers
- Shafts, concentric construction

Related Products and Applications

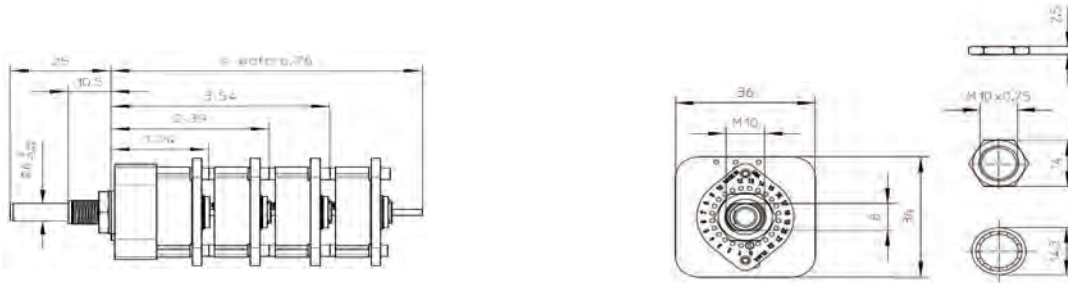
- Mixing desks and outboard studio equipment
- Home audio and home theater



Audio Attenuator A47 Series



Dimensions (mm)



Specifications

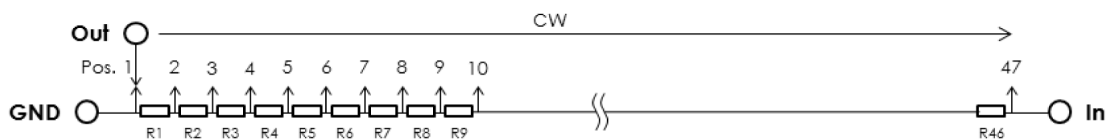
General

- Indexing Resolution:.....47 positions (7.5° indexing; 345° total switch travel)
- Switching torque :..... 1.5, 2.5 or 5 Ncm (+/- 30%, over temperature range and life)
- Rotational life :.....25k cycles (over temperature range, at 120 RPM)
- Contact system :.....Low-bounce wiper with 3 micron hard gold plated PCB
- SMT resistors:.....0805 package, thin-film, +/- 0.1%, TCR; +/-25 ppm/°C
- THT resistors:..... Non-populated, max. package size; 02.5 x 10 mm (00.7 mm wire)
- Input impedance:..... 10k, 25k, 50k, 100k or 600 Ohms
- Packaging :.....Single piece packed, lock washer and two nuts are included

dB Attenuation

Switch Position	1	2	3	4	5	6	7	8	9	10	...	47
Attenuation (dB)	Off	-72	-69	-66	-64	-62	-60	-58.5	-57	-55.5	...	0
Step size (dB)			3	3	2	2	2	1.5	1.5	1.51.5...

Circuitry and Pin Allocation



Ordering Code

Ordering Code

A47 - SER - - - -

Switching Torque

- A - 1.5 Ncm (not recommended for >2 wafers)
- B - 2.5 Ncm (not recommended for >4 wafers)
- C - 5 Ncm

Number of Wafers

- x -x Wafers (max. 8)

Function (per Wafer)

- THT - THT, non-populated
- 010 - SMT, 10k Ohms impedance
- 025 - SMT, 25k Ohms impedance
- 050 - SMT, 50k Ohms impedance
- 100 - SMT, 100k Ohms impedance
- 0,6 - SMT, 600 Ohms impedance

Accessories to Order

- Spare nut:.....P/N 5622-16
- Stop screws (10 pcs. pack):.....P/N 4124-21
- Free Excel resistor calculator:.....