

EK019 – Preamplifier Stereo

Kit description:

EK019 is a small amplifier for lifting the weakest of signals up to a level suitable for power amplifiers and other equipment. Both inputs are AC coupled and the amplifier has a frequency range of about 5Hz to 25kHz. The amplification can be individually adjusted using the onboard potentiometers. EK019 is suitable for use with dynamic microphones, electric guitar pickups and other mV range signals.



- * Supply voltage: 5 - 30VDC
- * Current draw: 15mA max. (at 12V)
- * Frequency range: 5Hz - 25kHz
- * Dimensions: 45.7 x 30.5mm
- * Mounting holes: c-c 40.6 x 25.4mm, \varnothing 2.54mm

Assembly guide:

Before you begin mounting components, make sure the board is free from damage and scratches. Make sure all the components are included and are of correct value. Compare with the component list!

Begin mounting the lowest components and work your way up to the largest. IC sockets, resistors, ceramic capacitors and diodes go first. Electrolytic capacitors, connectors and potentiometers go last. Some components are polarized and must be mounted in the right way. Please observe the markings on the board!

Component list:

RefDes	Value	Qty.	Part.no.	
IN, OUT	2.54mm 1x3p	2	41002778	
VIN	2.54mm 1x2p	1	41002777	
R1, R4, R9, R11	1 Mohm	4	40811610	
R2, R3, R5	1.8 kohm	3	40811318	
R6, R7	10 kohm	2	40811410	
R8, R10	200 kohm trim	2	40900500	
C1, C4	47 uF	2	41013577	
C3, C5, C8, C9	10 uF	4	40520003	
C7	100 nF	1	41003038	
D1	3mm	1	41004448	
U1	NJM4558	1	40354558	
U1	DIP-8	1	40410008	

Schematic:

