MIFLEX Solutions

Powering Possibilities

Miflex Pure Copper Signature Capacitors

Catalogue 2026

Designed and Manufactured in Poland

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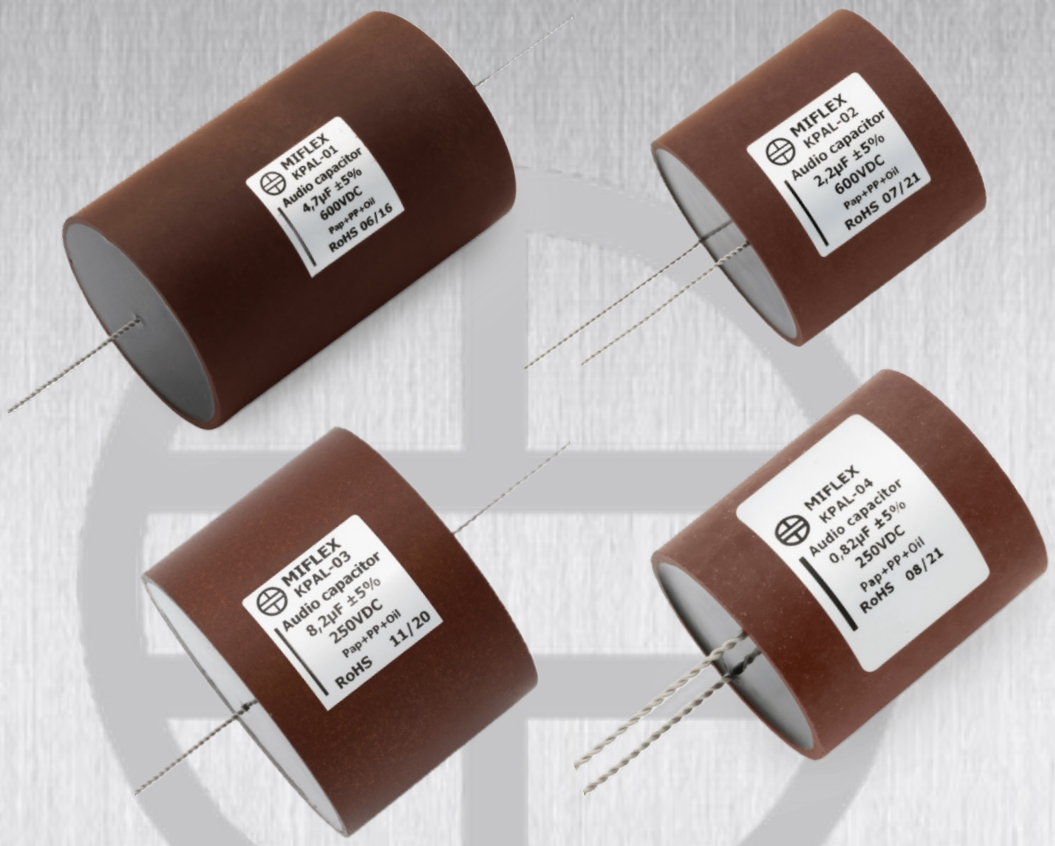
Miflex Signature
Pure Aluminium Foil Capacitors

KPAL Pure Aluminium Range



Series	Type	Power Range	Capacitance Range (µF)	Connector
KPAL-01	**Pure Aluminium Foil**	600 VDC	0.022 – 18.00	Axial
KPAL-02		600 VDC	0.022 – 18.00	Radial
KPAL-03		250 VDC	0.047 – 18.00	Axial
KPAL-04		250 VDC	0.047 – 18.00	Radial

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KPAL Pure Aluminium Foil Capacitors

KPAL capacitors are made using **pure aluminium foil** of a specific thickness. The aluminium foil is separated by a specially selected dielectric based on capacitor-grade paper, vacuum-impregnated with a proprietary blend of oil and wax. To enhance electrical performance, an additional layer of polypropylene is incorporated between the foils. The ends of the capacitor windings are metallised using a specialized mixture of materials—such as zinc, tin, and copper—to improve the connection between the tinned copper leads and the aluminium foil. The leads consist of dual-stranded tinned copper wire, drawn from specially selected, ultra-high-purity copper. The capacitors are housed in a paper-phenolic tube and encapsulated in resin that meets the V0 flammability standard. The materials used allow for operation in both DC and AC applications, provided the voltage amplitude does not exceed the rated voltage. These capacitors are designed for high-end audio equipment and can perform in demanding applications. All materials used in production comply with RoHS and REACH standards. These capacitors are designed and fully manufactured in Poland (EU) at the Miflex factory, established in 1957.

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KPAL Pure Aluminium Foil Capacitors

Parameters	KPAL-01 / 02 / 03 / 04
Product Class	**High-purity Aluminium foil, Oil and Wax Capacitor**
Rated Voltage	KPAL-01 / KPAL-02: 600 VDC KPAL-03 / KPAL-04: 250 VDC
Lead Connectors	KPAL-01 (Axial) / KPAL-02 (Radial) KPAL-03 (Axial) / KPAL-04 (Radial)
Electrode	High-purity rolled aluminium foil
Dielectric	Capacitor-grade paper + polypropylene
Impregnation	Vacuum impregnated oil/wax mixture
End Spray	Zn / Sn / Cu alloy
Leads	Ultra-high purity stranded tinned copper
Housing	Paper phenolic tube
End Seal	UL94 V-0 epoxy resin
Operation	DC and AC
Compliance	RoHS + REACH
Audio Class	Premium audio coupling capacitor

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KPAL Pure Aluminium Foil Capacitors

KPAL-01(Axial) / KPAL-02(Radial) - 600 VDC

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
0.022	J = ±5% / K = ±10%	18	40	2 × Ø0.6 mm	KPAL-01 Axial, dual-stranded tinned copper KPAL-02 Radial, dual-stranded tinned copper
0.027	J = ±5% / K = ±10%	20	40	2 × Ø0.6 mm	
0.033	J = ±5% / K = ±10%	20	40	2 × Ø0.6 mm	
0.039	J = ±5% / K = ±10%	20	50	2 × Ø0.6 mm	
0.047	J = ±5% / K = ±10%	20	50	2 × Ø0.6 mm	
0.056	J = ±5% / K = ±10%	20	50	2 × Ø0.6 mm	
0.068	J = ±5% / K = ±10%	22	50	2 × Ø0.6 mm	
0.082	J = ±5% / K = ±10%	24	50	2 × Ø0.8 mm	
0.100	J = ±5% / K = ±10%	24	50	2 × Ø0.8 mm	
0.120	J = ±5% / K = ±10%	26	50	2 × Ø0.8 mm	
0.150	J = ±5% / K = ±10%	26	50	2 × Ø0.8 mm	
0.180	J = ±5% / K = ±10%	30	50	2 × Ø0.8 mm	
0.220	J = ±5% / K = ±10%	30	50	2 × Ø0.8 mm	
0.270	J = ±5% / K = ±10%	36	50	2 × Ø0.8 mm	
0.330	J = ±5% / K = ±10%	36	50	2 × Ø0.8 mm	
0.390	J = ±5% / K = ±10%	44	50	2 × Ø0.8 mm	
0.470	J = ±5% / K = ±10%	44	50	2 × Ø0.8 mm	
0.560	J = ±5% / K = ±10%	44	50	2 × Ø0.8 mm	
0.680	J = ±5% / K = ±10%	40	70	2 × Ø0.8 mm	
0.820	J = ±5% / K = ±10%	40	70	2 × Ø0.8 mm	
1.000	J = ±5% / K = ±10%	44	70	2 × Ø0.8 mm	
1.200	J = ±5% / K = ±10%	44	70	2 × Ø0.8 mm	
1.500	J = ±5% / K = ±10%	50	70	2 × Ø0.8 mm	
1.800	J = ±5% / K = ±10%	76	70	2 × Ø0.8 mm	
2.000	J = ±5% / K = ±10%	76	70	2 × Ø0.8 mm	
2.200	J = ±5% / K = ±10%	76	70	2 × Ø0.8 mm	
2.700	J = ±5% / K = ±10%	86	70	2 × Ø0.8 mm	
3.000	J = ±5% / K = ±10%	86	70	2 × Ø0.8 mm	
3.300	J = ±5% / K = ±10%	86	70	2 × Ø0.8 mm	
3.900	J = ±5% / K = ±10%	96	70	2 × Ø0.8 mm	
4.000	J = ±5% / K = ±10%	96	70	2 × Ø0.8 mm	
4.700	J = ±5% / K = ±10%	86	125	2 × Ø0.8 mm	

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KPAL Pure Aluminium Foil Capacitors

KPAL-01(Axial) / KPAL-02(Radial) - 600 VDC

42 model variants available with Axial or Radial connectors

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
5.600	J = ±5% / K = ±10%	86	125	2 × Ø0.8 mm	KPAL-01 Axial, dual-stranded tinned copper KPAL-02 Radial, dual-stranded tinned copper
6.000	J = ±5% / K = ±10%	86	125	2 × Ø0.8 mm	
6.800	J = ±5% / K = ±10%	96	125	2 × Ø0.8 mm	
8.200	J = ±5% / K = ±10%	96	125	2 × Ø0.8 mm	
9.000	J = ±5% / K = ±10%	102	125	2 × Ø0.8 mm	
10.000	J = ±5% / K = ±10%	96	210	2 × Ø0.8 mm	
12.000	J = ±5% / K = ±10%	102	220	2 × Ø0.8 mm	
15.000	J = ±5% / K = ±10%	102	260	2 × Ø0.8 mm	
16.000	J = ±5% / K = ±10%	102	270	2 × Ø0.8 mm	
18.000	J = ±5% / K = ±10%	102	310	2 × Ø0.8 mm	

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KPAL Pure Aluminium Foil Capacitors

KPAL-03 (Axial) / KPAL-04 (Radial) - 250 VDC

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
0.047	J = ±5% / K = ±10%	20	40	2 × Ø0.6	KPAL-03 Axial, dual-stranded tinned copper KPAL-04 Radial, dual-stranded tinned copper
0.056	J = ±5% / K = ±10%	20	40	2 × Ø0.6	
0.068	J = ±5% / K = ±10%	20	40	2 × Ø0.6	
0.082	J = ±5% / K = ±10%	20	40	2 × Ø0.6	
0.10	J = ±5% / K = ±10%	20	50	2 × Ø0.8	
0.12	J = ±5% / K = ±10%	20	50	2 × Ø0.8	
0.15	J = ±5% / K = ±10%	22	50	2 × Ø0.8	
0.18	J = ±5% / K = ±10%	22	50	2 × Ø0.8	
0.22	J = ±5% / K = ±10%	24	50	2 × Ø0.8	
0.27	J = ±5% / K = ±10%	24	50	2 × Ø0.8	
0.33	J = ±5% / K = ±10%	26	50	2 × Ø0.8	
0.39	J = ±5% / K = ±10%	30	50	2 × Ø0.8	
0.47	J = ±5% / K = ±10%	30	50	2 × Ø0.8	
0.56	J = ±5% / K = ±10%	36	50	2 × Ø0.8	
0.68	J = ±5% / K = ±10%	36	50	2 × Ø0.8	
0.82	J = ±5% / K = ±10%	44	50	2 × Ø0.8	
1.0	J = ±5% / K = ±10%	44	50	2 × Ø0.8	
1.2	J = ±5% / K = ±10%	44	50	2 × Ø0.8	
1.5	J = ±5% / K = ±10%	40	70	2 × Ø0.8	
1.8	J = ±5% / K = ±10%	40	70	2 × Ø0.8	
2.0	J = ±5% / K = ±10%	44	70	2 × Ø0.8	
2.2	J = ±5% / K = ±10%	44	70	2 × Ø0.8	
2.7	J = ±5% / K = ±10%	50	70	2 × Ø0.8	
3.0	J = ±5% / K = ±10%	76	70	2 × Ø0.8	
3.3	J = ±5% / K = ±10%	76	70	2 × Ø0.8	
3.9	J = ±5% / K = ±10%	76	70	2 × Ø0.8	
4.0	J = ±5% / K = ±10%	76	70	2 × Ø0.8	

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KPAL Pure Aluminium Foil Capacitors

KPAL-03(Axial) / KPAL-04(Radial) - 250 VDC

37 model variants available with Axial or Radial connectors

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
4.7	J = ±5% / K = ±10%	76	70	2 × Ø0.8	KPAL-03 Axial, dual-stranded tinned copper KPAL-04 Radial, dual-stranded tinned copper
5.6	J = ±5% / K = ±10%	86	70	2 × Ø0.8	
6.0	J = ±5% / K = ±10%	86	70	2 × Ø0.8	
6.8	J = ±5% / K = ±10%	86	70	2 × Ø0.8	
8.2	J = ±5% / K = ±10%	96	70	2 × Ø0.8	
9.0	J = ±5% / K = ±10%	76	125	2 × Ø0.8	
10.0	J = ±5% / K = ±10%	76	125	2 × Ø0.8	
12.0	J = ±5% / K = ±10%	86	125	2 × Ø0.8	
15.0	J = ±5% / K = ±10%	96	125	2 × Ø0.8	
18.0	J = ±5% / K = ±10%	96	180	2 × Ø0.8	

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