MIFLEX Solutions

Powering Possibilities

Miflex Pure Copper Signature Capacitors

Catalogue 2026

Designed and Manufactured in Poland

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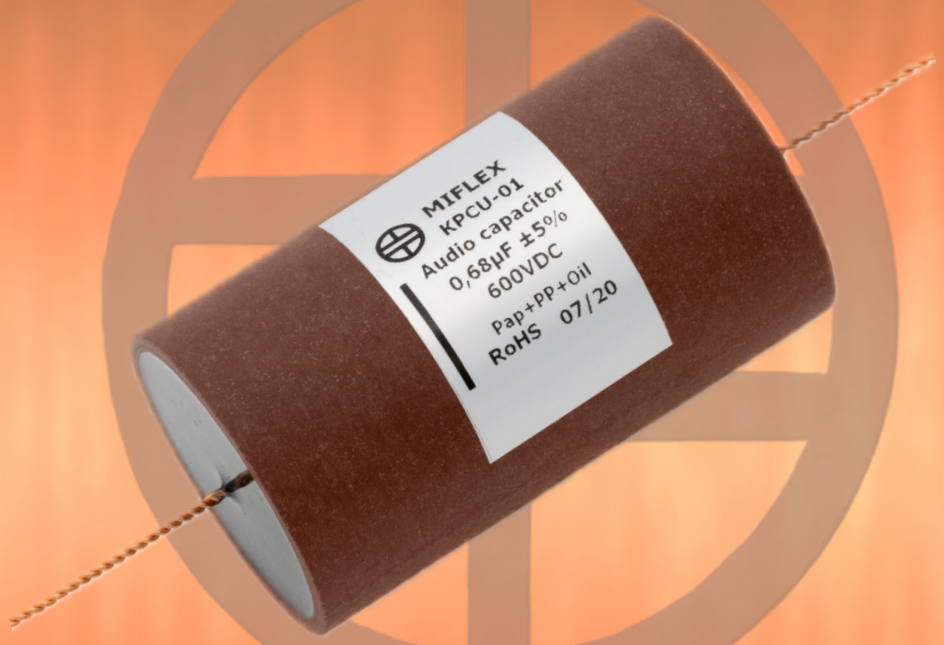
Miflex Signature
Pure Copper Foil Capacitors

KPCU 600 VDC / 250 VDC Range



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

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KPCU Pure Copper Foil Signature Capacitors

KPCU capacitors are made using **pure copper foil** of a specific thickness. The copper capacitor plates are separated by a specially selected dielectric based on capacitor paper, vacuum-impregnated with a specially formulated mixture of oil and wax. To enhance electrical performance, an additional layer of polypropylene is placed between the capacitor plates. The ends of the windings are coated with lead-free tin alloyed with copper to improve the connection of the copper leads. The leads consist of stranded wire made from specially selected, ultra-high-purity copper. The capacitors feature a housing made of paper-phenolic tubing and are potted with 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 are suitable for use 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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KPCU Pure Copper Foil Signature Capacitors

Parameters	KPCU-01 / KPCU-02 / KPCU-03 / KPCU-04
Product Class	**Pure Copper foil, Oil and Wax Capacitor**
Rated Voltage	KPCU-01 / KPCU-02: 600 VDC KPCU-03 / KPCU-04: 250 VDC
Lead Style	KPCU-01 (Axial) / KPCU-02 (Radial) KPCU-03 (Axial) / KPCU-04 (Radial)
Electrode	High-purity rolled copper 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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KPCU Pure Copper Foil Signature Capacitors

KPCU-01(Axial) / 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
0.022	J = ±5%K = ±10%	18	40	2 × 0.6 mm	KPCU-01 Axial, twisted dual-strand copper KPCU-02 Radial, twisted dual-strand copper
0.027	J = ±5%K = ±10%	20	40	2 × 0.6 mm	
0.033	J = ±5%K = ±10%	20	40	2 × 0.6 mm	
0.039	J = ±5%K = ±10%	20	50	2 × 0.6 mm	
0.047	J = ±5%K = ±10%	20	50	2 × 0.6 mm	
0.056	J = ±5%K = ±10%	20	50	2 × 0.6 mm	
0.068	J = ±5%K = ±10%	22	50	2 × 0.6 mm	
0.082	J = ±5%K = ±10%	24	50	2 × 0.8 mm	
0.10	J = ±5%K = ±10%	24	50	2 × 0.8 mm	
0.12	J = ±5%K = ±10%	26	50	2 × 0.8 mm	
0.15	J = ±5%K = ±10%	26	50	2 × 0.8 mm	
0.18	J = ±5%K = ±10%	30	50	2 × 0.8 mm	
0.22	J = ±5%K = ±10%	30	50	2 × 0.8 mm	
0.27	J = ±5%K = ±10%	36	50	2 × 0.8 mm	
0.33	J = ±5%K = ±10%	36	50	2 × 0.8 mm	
0.39	J = ±5%K = ±10%	44	50	2 × 0.8 mm	
0.47	J = ±5%K = ±10%	44	50	2 × 0.8 mm	
0.56	J = ±5%K = ±10%	44	50	2 × 0.8 mm	
0.68	J = ±5%K = ±10%	40	70	2 × 0.8 mm	
0.82	J = ±5%K = ±10%	40	70	2 × 0.8 mm	
1.0	J = ±5%K = ±10%	44	70	2 × 0.8 mm	
1.2	J = ±5%K = ±10%	44	70	2 × 0.8 mm	
1.5	J = ±5%K = ±10%	50	70	2 × 0.8 mm	
1.8	J = ±5%K = ±10%	76	70	2 × 0.8 mm	
2.0	J = ±5%K = ±10%	76	70	2 × 0.8 mm	
2.2	J = ±5%K = ±10%	76	70	2 × 0.8 mm	
2.7	J = ±5%K = ±10%	86	70	2 × 0.8 mm	

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KPCU Pure Copper Foil Signature Capacitors

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

Continued…

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
3.0	J = ±5%K = ±10%	86	70	2 × 0.8 mm	KPCU-01 Axial, twisted dual-strand copper KPCU-02 Radial, twisted dual-strand copper
3.3	J = ±5%K = ±10%	86	70	2 × 0.8 mm	
3.9	J = ±5%K = ±10%	96	70	2 × 0.8 mm	
4.0	J = ±5%K = ±10%	96	70	2 × 0.8 mm	
4.7	J = ±5%K = ±10%	86	125	2 × 0.8 mm	
5.6	J = ±5%K = ±10%	86	125	2 × 0.8 mm	
6.0	J = ±5%K = ±10%	86	125	2 × 0.8 mm	
6.8	J = ±5%K = ±10%	96	125	2 × 0.8 mm	
8.2	J = ±5%K = ±10%	96	125	2 × 0.8 mm	
9.0	J = ±5%K = ±10%	102	125	2 × 0.8 mm	
10.0	J = ±5%K = ±10%	96	210	2 × 0.8 mm	
12.0	J = ±5%K = ±10%	102	220	2 × 0.8 mm	
15.0	J = ±5%K = ±10%	102	260	2 × 0.8 mm	
16.0	J = ±5%K = ±10%	102	270	2 × 0.8 mm	
18.0	J = ±5%K = ±10%	102	310	2 × 0.8 mm	

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KPCU Pure Copper Foil Signature Capacitors

KPCU-03 (Axial) / 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
0.047	J = ±5% / K = ±10%	20	40	2 × 0.6 mm	KPCU-03 Axial, twisted dual-strand copper KPCU-04 Radial, twisted dual-strand copper
0.056	J = ±5% / K = ±10%	20	40	2 × 0.6 mm	
0.068	J = ±5% / K = ±10%	20	40	2 × 0.6 mm	
0.082	J = ±5% / K = ±10%	20	40	2 × 0.6 mm	
0.10	J = ±5% / K = ±10%	20	50	2 × 0.8 mm	
0.12	J = ±5% / K = ±10%	20	50	2 × 0.8 mm	
0.15	J = ±5% / K = ±10%	22	50	2 × 0.8 mm	
0.18	J = ±5% / K = ±10%	22	50	2 × 0.8 mm	
0.22	J = ±5% / K = ±10%	24	50	2 × 0.8 mm	
0.27	J = ±5% / K = ±10%	24	50	2 × 0.8 mm	
0.33	J = ±5% / K = ±10%	26	50	2 × 0.8 mm	
0.39	J = ±5% / K = ±10%	30	50	2 × 0.8 mm	
0.47	J = ±5% / K = ±10%	30	50	2 × 0.8 mm	
0.56	J = ±5% / K = ±10%	36	50	2 × 0.8 mm	
0.68	J = ±5% / K = ±10%	36	50	2 × 0.8 mm	
0.82	J = ±5% / K = ±10%	44	50	2 × 0.8 mm	
1.0	J = ±5% / K = ±10%	44	50	2 × 0.8 mm	
1.2	J = ±5% / K = ±10%	44	50	2 × 0.8 mm	
1.5	J = ±5% / K = ±10%	40	70	2 × 0.8 mm	
1.8	J = ±5% / K = ±10%	40	70	2 × 0.8 mm	
2.0	J = ±5% / K = ±10%	44	70	2 × 0.8 mm	
2.2	J = ±5% / K = ±10%	44	70	2 × 0.8 mm	
2.7	J = ±5% / K = ±10%	50	70	2 × 0.8 mm	
3.0	J = ±5% / K = ±10%	76	70	2 × 0.8 mm	
3.3	J = ±5% / K = ±10%	76	70	2 × 0.8 mm	
3.9	J = ±5% / K = ±10%	76	70	2 × 0.8 mm	
4.0	J = ±5% / K = ±10%	76	70	2 × 0.8 mm	

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KPCU Pure Copper Foil Signature Capacitors

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

Continued…

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
4.7	J = ±5% / K = ±10%	76	70	2 × 0.8 mm	KPCU-03 Axial, twisted dual-strand copper KPCU-04 Radial, twisted dual-strand copper
5.6	J = ±5% / K = ±10%	86	70	2 × 0.8 mm	
6.0	J = ±5% / K = ±10%	86	70	2 × 0.8 mm	
6.8	J = ±5% / K = ±10%	86	70	2 × 0.8 mm	
8.2	J = ±5% / K = ±10%	96	70	2 × 0.8 mm	
9.0	J = ±5% / K = ±10%	76	125	2 × 0.8 mm	
10.0	J = ±5% / K = ±10%	76	125	2 × 0.8 mm	
12.0	J = ±5% / K = ±10%	86	125	2 × 0.8 mm	
15.0	J = ±5% / K = ±10%	96	125	2 × 0.8 mm	
18.0	J = ±5% / K = ±10%	96	180	2 × 0.8 mm	

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Miflex Signature
Pure Copper Foil Capacitors

KFPM 600 VDC Range

Series	Type	Power Range	Capacitance Range (µF)	Connector
KFPM	KFPM-01	600 VDC	0.022 – 1.00	Axial

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KFPM Pure Copper Foil Signature Capacitors

KFPM capacitors are made using **pure copper foil** of a specific thickness. The copper capacitor plates are separated by a specially selected polypropylene-based dielectric. The ends of the windings are metallised using a specialised blend of materials, such as zinc, tin, and copper, developed and perfected during years of development to enhance the connection between the copper leads and the copper plates. The materials used allow for operation in both DC and AC applications, provided the voltage amplitude does not exceed the rated voltage. The capacitors are protected against moisture by a resin that meets the V0 flammability standard. Designed for audio equipment, they are suitable for use in highly demanding systems. The 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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KFPM Pure Copper Foil Signature Capacitors

Parameters	KFPM-01
Product Class	**Pure Copper foil** (not tinned, not plated)
Rated Voltage	KFPM-01 600 VDC
Connector	Axial
Dielectric	Polypropylene film
Construction	Film/Foil wound capacitor
End spray	Zinc/Tin/Copper alloy end metallization
Lead attachment	Copper leads bonded to metallized end spray
Connector Type	Axial stranded lead connectors
Encapsulation	Epoxy resin, UL94 V-0
Housing type	Cylindrical, UL94 V-0 rated
Moisture protection	Epoxy encapsulated
Applications	DC and AC
Audio	High-end coupling capacitor
Compliance	RoHS + REACH

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KFPM Pure Copper Foil Signature Capacitors

KFPM-01(Axial) - 600 VDC

21 model variants available with Axial connectors only

Rated Capacitance (µF)	Capacitance Tolerance	D ±1 (mm)	L ±1.5 (mm)	Connector Diameter	Connector
0.022	±2% / ±5%	13.8	30	2 × 0.5 mm	KFPM-01 Axial, twisted dual-strand copper
0.027	±2% / ±5%	15.0	30	2 × 0.5 mm	
0.033	±2% / ±5%	16.5	30	2 × 0.5 mm	
0.039	±2% / ±5%	17.5	30	2 × 0.5 mm	
0.047	±2% / ±5%	19.0	30	2 × 0.5 mm	
0.056	±2% / ±5%	20.5	30	2 × 0.5 mm	
0.068	±2% / ±5%	14.7	39	2 × 0.5 mm	
0.082	±2% / ±5%	16.0	39	2 × 0.5 mm	
0.100	±2% / ±5%	17.0	39	2 × 0.5 mm	
0.120	±2% / ±5%	19.0	39	2 × 0.5 mm	
0.150	±2% / ±5%	21.0	39	2 × 0.5 mm	
0.180	±2% / ±5%	23.0	39	2 × 0.8 mm	
0.220	±2% / ±5%	25.0	39	2 × 0.8 mm	
0.270	±2% / ±5%	27.5	39	2 × 0.8 mm	
0.330	±2% / ±5%	30.0	39	2 × 0.8 mm	
0.390	±2% / ±5%	33.0	39	2 × 0.8 mm	
0.470	±2% / ±5%	35.5	39	2 × 0.8 mm	
0.560	±2% / ±5%	28.5	61	2 × 0.8 mm	
0.680	±2% / ±5%	31.5	61	2 × 0.8 mm	
0.820	±2% / ±5%	34.0	61	2 × 0.8 mm	
1.000	±2% / ±5%	37.0	61	2 × 0.8 mm	

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