

MIFLEX Solutions

Powering Possibilities



MIFLEX

INSIDE
EVERY
NOTE

Premium Miflex components of your brand, engineered together for pure, uncolored sound.



EMI FILTER

Low-noise EMI filter technology ensures clean, interference-free power delivery.



CROSSOVER

Precision-engineered crossover network delivers accurate frequency division and clarity.



POWER SUPPLY

High-performance power supply design for dynamic performance and reliability.

ENGINEERED TO PERFORM

OEM Engineering,
Design & Manufacturing Services

Designed and Manufactured in Poland

www.miflexsolutions.com

OEM Engineering, Design & Manufacturing Services



Established in 1957, MIFLEX builds on decades of expertise in the design, development and manufacture of high-performance passive electronic components and custom-engineered solutions for the global electronics industry. Renowned for our precision manufacturing, uncompromising quality and engineering excellence, MIFLEX works in close partnership with OEM customers to develop and manufacture application-specific products tailored to their exact technical, mechanical and commercial requirements.

Our OEM capabilities extend far beyond capacitor manufacture, offering complete **Build-to-Print, Design-to-Spec** and **Full Custom Development** services for passive electronic assemblies and audio solutions. From concept development and engineering support through prototype manufacture, testing, validation and volume production, MIFLEX provides a single-source solution designed to reduce development time, simplify supply chains and accelerate time-to-market.

Capacitors, Audio, Power,
Electromagnetic Suppression

EMI Filters

Crossovers

Power Supplies



OEM Engineering, Design & Manufacturing Services



Our engineering and manufacturing capabilities include premium **audio capacitor technologies**, custom **passive loudspeaker crossover assemblies**, **low-noise linear audio power supplies**, **electromagnetic interference (EMI) suppression and mains input filter assemblies**, together with a wide range of application-specific passive electronic modules. MIFLEX also offers complete **speaker crossover assembly services**, incorporating premium MIFLEX audio capacitors (own brand and OEM) or customer-specified components, manufactured and tested to meet the performance objectives of each loudspeaker system.

Supporting every stage of product development, MIFLEX provides electrical design, prototype development, performance optimisation, qualification testing, production verification and quality assurance, enabling customers to confidently transition from initial concept to reliable, repeatable serial production.

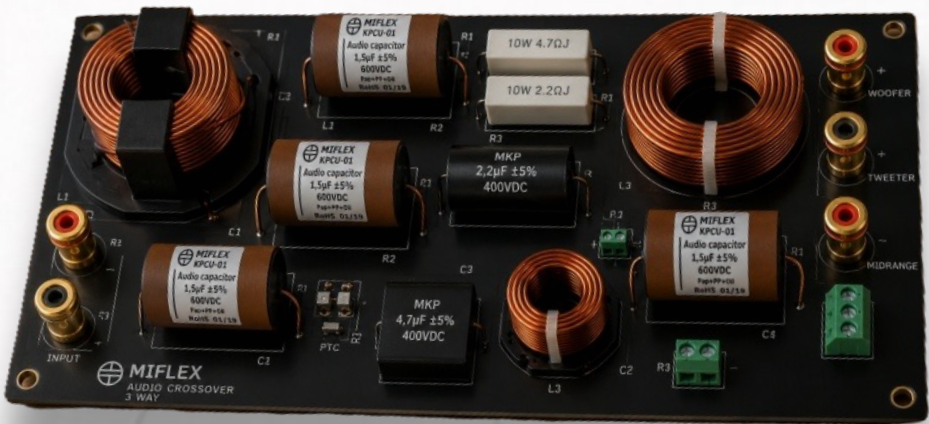
Whether manufacturing directly to customer documentation or developing turnkey solutions from a functional specification, MIFLEX combines decades of engineering knowledge with advanced manufacturing tech to deliver reliable, high-performance products trusted by leading manufacturers worldwide.

Our engineering partner approach

Service Level	Description
Build-to-Print	Manufacture exactly to customer drawings, schematics and BOM.
Design-to-Spec	Complete crossover design and optimisation from customer performance requirements.
Custom Development	End-to-end engineering, prototyping, testing and production for new loudspeaker platforms.

MIFLEX – Engineering Behind Your Brand’s Performance

Crossover Capabilities



Parameter	Compact 2-Way	Premium 2-Way	Standard 3-Way	Reference 3-Way
Typical Application	Bookshelf Speakers	Hi-Fi / Studio Monitors	Floorstanding Speakers	High-End Audiophile Systems
Continuous Power Handling	Up to 200 W	Up to 400 W	Up to 300 W	Up to 600 W
Nominal Impedance	4 / 6 / 8 Ω	4 / 6 / 8 Ω	4 / 6 / 8 Ω	4 / 6 / 8 Ω
MIFLEX Capacitors	PP Film Capacitors	PP / Copper Foil / Silver Foil	PP Film Capacitors	PP / Copper Foil / Silver Foil
Filter Topology	1st–4th Order Passive	Linkwitz-Riley / Butterworth / Custom	1st–4th Order Passive	Linkwitz-Riley / Custom Design
Key Features	Woofer/Tweeter Filters	Driver Equalisation, Bi-Wire Option	Woofer/Mid/Tweeter Filters	Phase Alignment, Notch Networks, Bi/Tri-Wire
Testing	Functional & Component Verification	100% Electrical & Performance Test	Functional & Component Verification	Full Electrical & Acoustic Validation
Design Service	OEM Build-to-Print	OEM Design-to-Spec	OEM Build-to-Print	Full Custom Design & Manufacturing
Typical Customers	Speaker OEMs	Premium Hi-Fi Manufacturers	Loudspeaker Manufacturers	High-End Audiophile Brands

Power Supply Capabilities



Parameter	Compact Active Speaker PSU	Premium Integrated Amplifier PSU	Reference Power Amplifier PSU	Reference Mono-Block PSU
Typical Application	Active Speakers / Studio Monitors	Integrated Amplifiers / DAC-Amps	Stereo Power Amplifiers	High-End Mono Power Amplifiers
Continuous Output Power	50–150 W	200–500 W	500–1,200 W	800–2,000 W
Output Voltage Rails	±15 to ±24 VDC	±35 to ±50 VDC	±50 to ±75 VDC	±60 to ±90 VDC
MIFLEX Capacitors	MKSP-I30 + WX1PW EMI Filters	MKSP-I30 + WX1PW EMI Filters	MKSP-I30 + WX1PW EMI Filters	Matched MKSP-I30 + WX1PW EMI Filters
EMI Suppression	Single-Stage EMI Filter	Two-Stage EMI Filter	High-Current EMI Filter	Dual Independent EMI Filters
Protection Features	Inrush Limiting, Fuse	Soft-Start, Inrush, Thermal	Soft-Start, Thermal, Overvoltage	Full Protection & Rail Monitoring
Testing	Functional & Safety Test	100% Functional & Hi-Pot Test	100% Electrical & Load Test	Full Production & Performance Test
Design Service	OEM Build-to-Print	OEM Design-to-Spec	Custom High-Power Design	Full Custom Design & Manufacturing
Typical Customers	Active Speaker OEMs	Hi-Fi Amplifier Manufacturers	Professional Audio OEMs	High-End Audiophile Brands

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