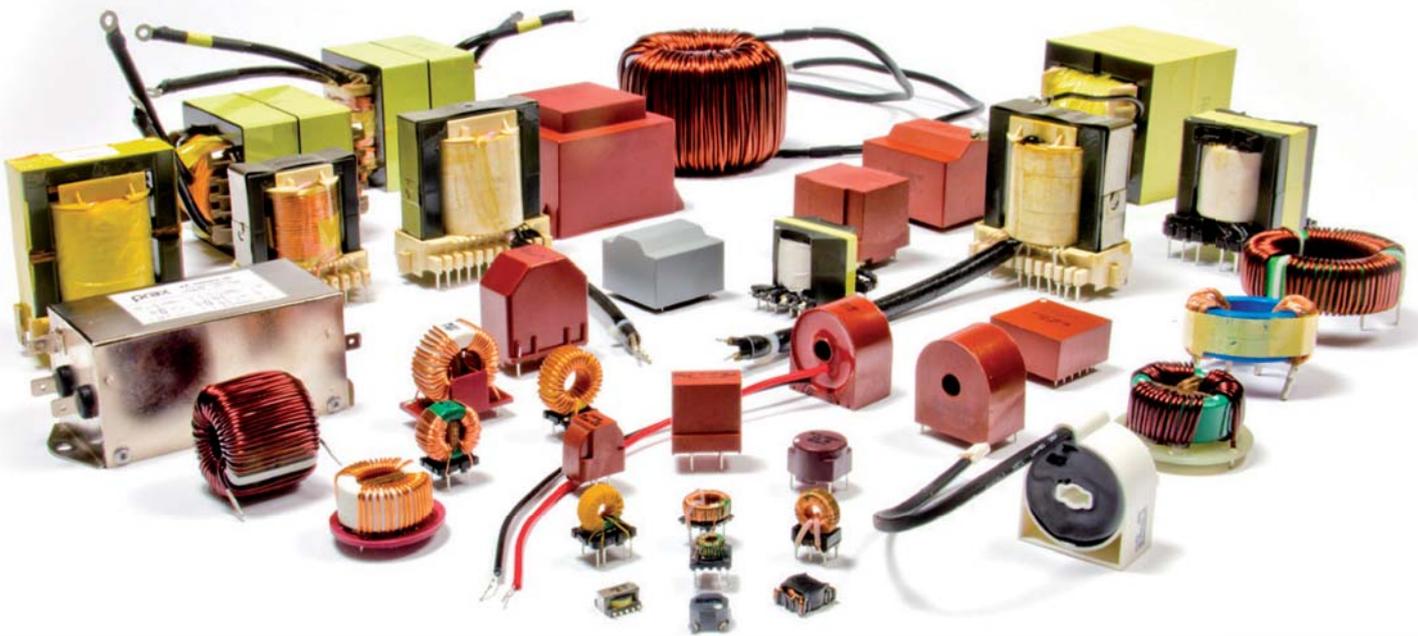
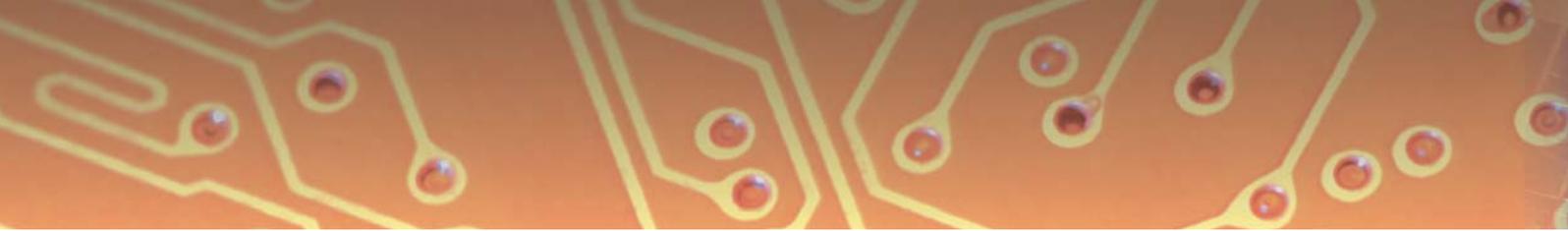


prax

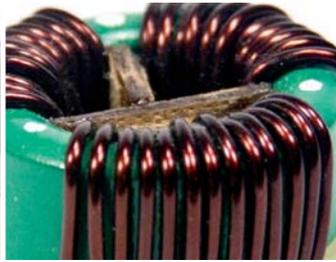
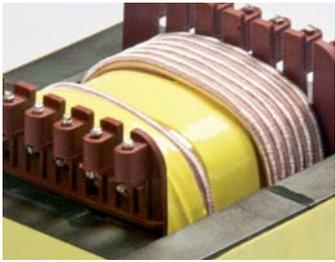


**Inductive Components and EMC Filters
for Power Electronics**



Customised and Standard Solutions

Besides our standard components series, PRAX offers a wide range of customer specific designs.



Input and Output Chokes
Common-Mode Chokes
Pulse Transformers
Current Transformers

SMPS Transformers
Planar Transformers
Power Inductors
PFC Chokes



PRAX Core Competences

INDUCTIVE COMPONENTS

EMC FILTERS

Certificates

ISO 9001:2008

**Own UL Electrical Insulation Systems
PX1-130 (Class B) / PX1-155 (Class F)**



Strong R&D Support and Design Services

Design / Development

PRAX focus is for strong R&D support. Our engineering team optimise your inductive component, either from well defined parameters or your own component specification. Specific design software tools are available.

Samples / Prototypes

Quick-turn functional samples are provided in order to test our developments. Smooth transition is assured to production series.

Industrialisation

Custom designs are industrialised in the most optimal manner. Winding technology is chosen specially for every component. Manual operations or fully automated processes are available.

Automation

Large quantity projects, even for non-standard solutions, can be automated with special solutions.

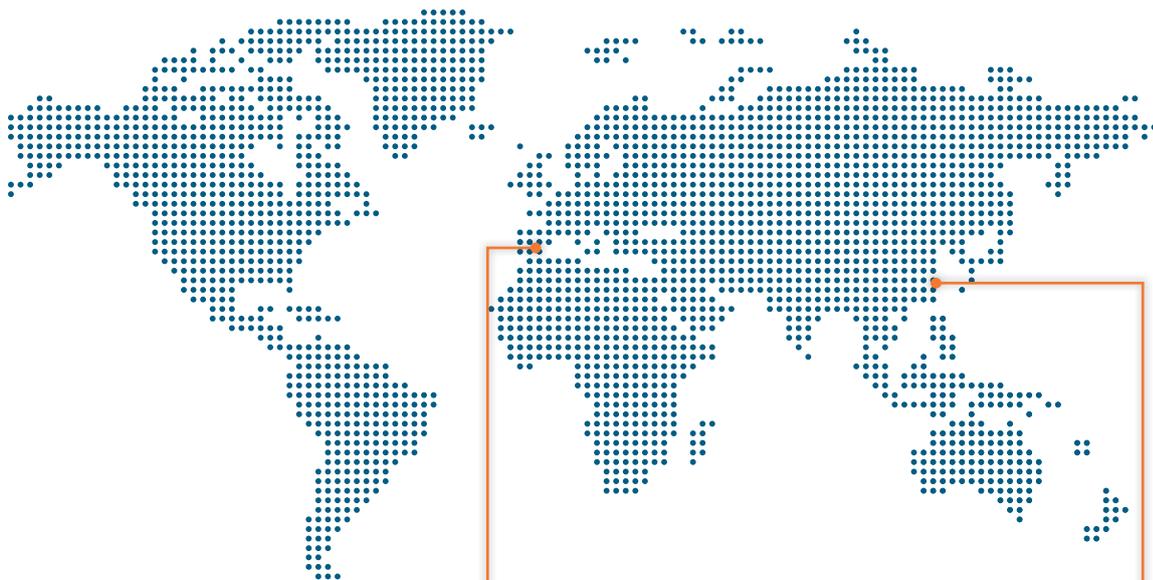
Mechanical Solution

Customised mechanical mounting solutions, vacuum impregnation, tailored bobbins or plastic housings are part of our component design.

Testing

100% of samples, trials and production components are tested mechanically and electrically. Under request or in a need-basis, component production control plans are implemented.

Global Service



Headquarters

Spain - Barcelona
Tirso de Molina, 36
08940 - Cornellà de Llobregat

APAC operations

China - Wuxi
No.20, Zhenyang Road, Qingyang Industrial Park,
Jiangyin City - 214401 - Wuxi, Jiangsu

EMC Filters

Single-Phase Filters

PX-1A44

General Purpose EMC Single-Phase Filter



- Single stage filter
- Chassis Mounting
- Good attenuation in differential and common mode
- Rated Current from 1 to 16A @ 40°C
- Maximum continuous operation voltage: 250Vac
- Low Leakage Current version available

Applications:

Electrical/Electronic equipment
Consumer goods
Household equipment
Automation
Telecom equipment

PX-1B46

General Purpose EMC Single-Phase Filter



- Double stage filter
- Chassis Mounting
- High attenuation in differential and common mode
- Designed with two-stages for high frequency attenuation
- Rated current from 1 to 16A @ 40°C
- Maximum continuous operation voltage: 250Vac
- Low Leakage Current version available

Applications:

Electrical/electronic equipment / Consumer goods
Household equipment / Industrial / Machinery
Telecom / Automation / Especially noisy applications

dV/dT Filters

PX-2A80

dV/dT Output Filter



- dV/dT output filter for PWM frequency inverters.
- Reduces frequency inverter dV/dT values.
- Limits inverter output peak voltage.
- Increases motor life while reducing motor heating and audible noise.
- Rated current from 8 to 36A @ 50°C.
- Maximum continuous operation voltage: 550Vac \pm 15.

Three-Phase Filters With Neutral

PX-4A60

General Purpose Three-phase and Neutral Line Filter



- Cost effective solution for EMI attenuation in a wide variety of applications.
- Low operation leakage current.
- Good attenuation in differential and common mode.
- Rated current from 3 to 150A @ 40°C.
- Maximum continuous operation voltage: 520Vac.

Applications:

General purpose four-wire filtering
High power office equipment
UPS
Automation

PX-4B62

High-end Three-phase and Neutral Line Filter



- Cost effective solution for EMI attenuation in a wide variety of industrial applications.
- Low operation leakage current.
- Very high attenuation in differential and common mode.
- Compact design.
- Safety terminal block connection in the whole range.
- Rated current from 8 to 200A @ 50°C.
- Maximum continuous operation voltage: 520Vac.

Applications:

Industrial equipment / Automation
Power supplies / Renewable energy

DC Filters

PX-5B70 (-L)

EMC DC Filter for PV inverters



- Installation between PV solar panels (DC side) and DC/AC inverter.
- EMC standard easier to meet for the whole PV system.
- Prevention of premature PV panel aging.
- Increases immunity in the DC/AC inverters control phase.
- Available without capacitors to ground (-L versions).
- Rated current from 25 to 1500A @ 50°C.
- Maximum continuous operation voltage: 1200Vdc.
- Operating frequency DC.

Applications:

PV inverters / UPS / DC motor drives
DC quick chargers

Three-Phase Filters

PX-3A50

Three-phase EMC Filter for Industrial Motor Drive Applications



- Cost effective solution to attenuate EMI in a wide variety of industrial applications.
- Compact and light design for easy installation.
- Good attenuation in differential and common mode for motor drives applications.
- Rated current from 10 to 1000A @ 50°C.
- Maximum continuous operation voltage: 520 Vac.
- Safety terminal blocks connection for currents up to 100A.
- Bus bar connection for currents from 150 to 1000A.

PX-3A52

Three-phase EMC Filter for Regenerative Motor Drive



- Slim book-style design for space optimization.
- For conventional and regenerative motor drives.
- For compliancy with class B limits .
- Rated current from 35 to 300A @ 50°C.
- Maximum continuous operation voltage: 520Vac.
- Safety terminal blocks connectors.

Applications:

Motor Drives / Servo Drives
Machinery / Automation
UPS - Uninterruptible power supplies
Converters for renewable energy generation
Elevators / Cranes / Escalators

PX-3A54

General Purpose EMC Filter for Three-Phase Applications



- Single stage 3-phase EMC filter.
- Good attenuation in differential and common mode.
- For industrial inverters and motor drives.
- For fast switching applications.
- Rated current from 8 to 660A @ 50°C.
- Maximum continuous operation voltage: 520Vac.

Applications:

Three-phase motor drives
Inverters and converters
Industrial automation / UPS and SMPS
Elevators / Cranes / Escalators

PX-3B51

Compact EMC Filter for Three-phase Systems .



- Three-phase book-style EMC filter.
- Compact and slim design for easy installation.
- Good attenuation in differential and common mode.
- Safety terminal blocks connection in the whole range.
- Rated current from 7 to 180A @ 50°C.
- Maximum continuous operation voltage: 520 Vac.

Applications:

Three-Phase motor drives and servo drives
Three-phase inverters and converters
Automation / UPS and SMPS / Elevators

PX-3B58

Three phase EMC Filter for power drive systems.



- Three-phase book-style EMC filter.
- For inverters and motor drives applications.
- Compact and slim design for easy installation.
- Rated current from 7 to 250A @ 50°C.
- Maximum continuous operation voltage [7-130A]: 690Vac.
- Maximum continuous operation voltage [180-250A]: 520Vac.

Applications:

Three-phase variable speed drives and power drive systems / Inverters and converters
Automation equipment / UPS and SMPS

PX-3C56

High-Current Three-phase EMC Filter



- Compact high-current filter solution up to 2500A.
- Designed for high power with very high insertion loss.
- 3-stage design for best possible attenuation performance.
- Low leakage current version available.
- Rated current from 150 to 2500A @ 50°C.
- Maximum continuous operation voltage: 690Vac.

Applications:

Motor drives, inverters and converters
Industrial 3-phase systems / High-power UPS
Wind-power turbines / Photovoltaic systems

Inductive Components

Input and Output Chokes

DX-01

Differential Mode Chokes - Toroid Format



- Core-With or Without Base.
- For Input or Output chokes in SMPS or Inverters.
- For DC or AC currents.
- Nominal inductance from 33 μ H to 560 μ H.
- Nominal maximum current from 1 to 10 A.
- Five different sizes.
- Plastic base UL94V-0 approved.
- Operating temperature: -40°C to 125°C.

Common-Mode Chokes

CX-01

Common Mode Chokes - Encapsulated



- Potted current compensated double choke.
- Rated voltage: 250 Vac (50/60 Hz).
- Five different sizes and two mounting versions.
- Plastic case and potting resin UL94V-0 approved.
- Design complies with EN 60938-2 and UL 1283.
- Operating temperature: -40°C to 125°C.

CX-02

Common Mode Chokes - Open Construction

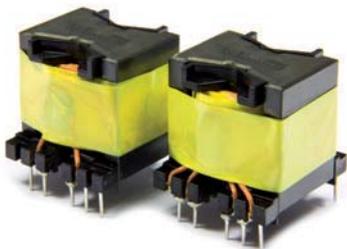


- Open current compensated double choke.
- Rated voltage: 250 Vac (50/60 Hz).
- Five different sizes.
- Plastic base UL94V-0 approved.
- Design complies with EN 60938-2 and UL 1283.
- Operating temperature: -40°C to 125°C.

PFC Chokes

FX-01

PFC Chokes - PQ format



- Linear inductance value up to Ipk Current.
- Operating frequency: 50kHz to 130kHz.
- Operating temperature: -40°C to 125°C.
- EMC improved.

FX-02

PFC Chokes - Toroidal format



- Toroidal low loss powder core construction PFC chokes.
- Power rating up to 2kW.
- Low parasitic capacitance winding.
- Frequency range up to 150kHz.
- Operating temperature from -40°C to 130°C.

Pulse Transformers

IX

Pulse Transformers



- Potted pulse transformers.
- Isolation up to 6kV.
- Operating frequency up to 40kHz.
- Operating temperature: -25°C to 85°C.



Gate Drive Transformers

GX-01

SMT Gate Drive Transformers
One secondary



- Low size SMT mounting component.
- Up to 30V/ μ s.
- Operational insulation - 1500 Vdc between Gate and Drive.
- Operating frequency: 50kHz to 500kHz.
- Operating temperature: -40°C to 130°C.

GX-02

SMT Gate Drive Transformers
One and Two secondary versions



- Low size SMT mounting component
- Up to 130V/ μ s.
- Basic Insulation - 1500 Vrms between Gate and Drive.
- Operating frequency: 20kHz to 500kHz.
- Operating temperature: -40°C to 130°C.

GX-03

Gate Drive Transformers - Two secondaries
Reinforced insulation



- Reinforced insulation - Meets safety isolation requirements.
- Up to 180V/ μ s.
- Working voltage up to 600 Vac.
- Isolation 4500 Vrms Gate to Drive & 2500 Vrms. Drive to Drive.
- Operating frequency: 20kHz to 500kHz.
- Operating temperature: -40°C to 130°C.

Current Transformers

SX-01

SMT Current Sense Transformers
Up to 15Amps



- Small footprint and low profile SMT component
- Frequency range from 50kHz to 500kHz
- Primary current rating up to 15 Amps
- Two primary wire for series or parallel configuration
- Operating temperature: -40°C to 125°C
- Primary to secondary isolation: 700 VRMS

SX-02

Current Sense Transformers
Up to 20 Amps



- Low profile THT current sense transformer.
- Horizontal Mounting.
- Frequency range from 30kHz to 300kHz.
- Primary current rating up to 20 Amps.
- Two primary wire for series or parallel configuration.
- Operating temperature: -40°C to 125°C.
- Primary to secondary isolation: 1500 VRMS.

SX-03

Current Sense Transformers
Up to 20 Amps



- Small foot-print THT current sense transformer.
- Vertical Mounting.
- Frequency range from 30kHz to 500kHz.
- Primary current rating up to 20 Amps.
- Two primary wire for series or parallel configuration.
- Operating temperature: -40°C to 125°C.
- Primary to secondary isolation: 1500 VRMS.

Markets

Renewable Energies



PHOTOVOLTAICS

1-Phase and 3-Phase systems for domestic applications and central inverter systems for industrial applications.



FUEL CELL

Electricity generation by converting hydrogen and oxygen into water.



WIND POWER

3-Phase converter systems for wind power electricity generation. AC drivers for yaw, pitch, and auxiliary controls.

Industrial



WELDING

Electric arc welding devices.



METERING

Industrial and domestic kWh meters.



ELEVATION

Lifts, escalators and autowalks.



AC DRIVES

Motor speed control.



UPS

Uninterruptible Power Supplies.



SWITCHING POWER SUPPLIES

Switched Mode Power Supplies and DC-DC Converters.

Telecommunication



BASE STATIONS

DC-DC Converters for Network Backbones.



DATA CENTER

UPS for Server Farms.



TRANSMISSION

AC-DC Converters for Communication Cards.

Medical



SURGICAL INSTRUMENTS

High frequency surgical instruments.



STIMULATION THERAPY

Electrotherapy medical devices.



X-RAY UNITS

Plain X-ray, computed tomography, fluoroscopy or radiotherapy devices.