

SPECIALIST ELECTRONICS COMPONENTS DISTRIBUTOR



MIDAS
COMPONENTS LTD

SHORTFORM CATALOGUE



In August 2009 Midas Components Limited entered its 10th year of servicing customers from design concept through to production and onto obsolescence management.

The Company specialises in the promotion of Opto Electronics, Audible Devices, EMC Components, and Ultrasonic Sensor Products.

Midas prides itself on its engineering product knowledge and commercial servicing expertise.

Our aim is to exceed our customers and suppliers expectations!



Certificate Number: 4128

AUDIBLE DEVICES

- Piezo elements
- Piezo and magnetic buzzers
- Piezo and magnetic transducers
- PCB, pinned, SMD, panel mount

OPTO ELECTRONICS

- Character LCDs
- Graphic LCDs
- TFT LCDs
- VFDs
- LEDs
- Accessories: cables, connectors, bezels etc
- Short leadtimes
- Low volume customisation
- Innovative product development
- Demonstration facility
- Engineering and design support

ULTRASONIC PRODUCTS

- Transmitters and Receivers
- Sonar ranging transceivers
- Narrow beam types
- Open and enclosed versions
- Ranging modules and ICs
- Matching transformers
- Atomisers/nebulisers
- Film vibration sensors

EMI/EMC PRODUCTS

- Low pass filters
- Filtered connectors
- Surface mount filters
- Power filters
- Filter plates
- Filtered terminal blocks
- RF inductors - leaded and SMD
- Power inductors - leaded and SMD
- Transformers
- Ferrite beads - leaded and SMD
- Ferrite cable clamps
- Ferrite materials
- Gaskets and Shielding products
- Patch antennas and assemblies
- MIL spec approvals

SHORTFORM

ULTRASONIC PRODUCTS



Sensors

Prowave Sanwa
B-Star

Piezo and Electrostatic Technologies

Wide and Narrow Beam Versions

Open Type Transmitters and Receivers

Frequencies: Diameters:
25KHz 10mm
32.8KHz 12mm
40KHz 16mm
50KHz 18mm
 24mm

Aluminium or plastic case versions
Mirror Bender mounted pair

Enclosed Type Transmitters and Receivers

Frequencies: Diameters:
25KHz 8mm
32.8KHz 18mm
40KHz 25mm

Aluminium cases

Open Pulse Transit (Sonar) Type

Frequencies: Diameters:
40KHz 16mm

Aluminium or plastic case versions

Enclosed Pulse Transit Types

Frequencies: Diameters:
40KHz 8mm
48KHz 9.3mm
80KHz 13mm
125KHz 18mm
200KHz 25mm
235KHz 36.5mm
320KHz

Aluminium cases, various seals
Asymmetrical beam type
Temperature Compensated types

Underwater Sonar Type

Frequencies: Diameters:
200KHz 45mm

Sealed case assembly with cable and connector

Accessories & Transducers

Prowave

Sensor Accessories

Matching Transformers
Step up 10:1, various Qs

Tuner Crystals
40KHz type

Ranging ICs
For driving sonar type transducers

Development Ranging Modules
Will drive most pulse transit types

Rubber Sleeves
For added protection

Reversing Module Kits
40KHz, 0.3-1.5m, cased.
With connector

Transducers

PVDF type Omni Directional Sensors

Frequencies: Diameters:
40KHz 4.9mm
77KHz 11mm

Polyvinylidene fluoride open construction

Immersion Atomiser
1.65MHz, 25mm diameter
Up to 400cc/hr

Micro-Nozzle Atomiser
135KHz, non-immersible, low power

Piezo Electric Film Sensor

PVF2 sheet to sense vibration, motion, impact, pressure etc

Bolt Clamped High Power Transducers

For ultrasonic cleaning, welding, etc
28.2KHz types
40KHz types

Monochrome LCD Character

Batron Everbouquet
Fordata Midas
Optrex

1 x 8 9mm, 13mm 15mm C.H.
2 x 8 3mm, 5mm C.H.
1 x 10 8mm C.H.

1 x 16 5mm, 6mm, 8mm, 9mm, 11mm, 14mm C.H.

1 x 20 9mm, 12mm C.H.
2 x 16 3mm, 4mm, 5mm, 8mm, 9mm, 9mm, C.H.

2 x 20 3mm, 5mm, 8mm, 9mm, 12mm C.H.

2 x 24 5mm C.H.
2 x 40 3mm, 5mm, 8mm C.H.

4 x 16 5mm, C.H.
4 x 20 5mm, 8mm, 9mm, 12mm,

4 x 40 5mm, 8mm C.H.
6 x 20 5mm C.H.

Chip on Board (COB)
Chip on Glass (COG)

TN, STN, FSTN
Reflective, Transflective

Logic Supply: 3v, 3.3v or 5v
Parallel/Serial (I²C) Interface

Low Profile Bezel Options 4.5mm
COG 5.5mm, 6.4mm, 7mm, 7.8mm, 8.9mm, 9.5mm COB with LED Backlights

30 Micron Dot Gap
15 Micron Dot Gap for 'smoother' character appearance.

Operating Temperatures:
Standard (0...+50°C)
Wide (-20...70°C)

Positive Mode Dark characters on a light background

Negative Mode Light characters on a dark ground

LED Backlight Options Yellow-green, White, Blue, Red, Amber, Orange

Font Set Options:
English/Japanese (standard)
English/European
English/Cyrillic
Others available

Monochrome LCD Graphic

Batron Everbouquet
Fordata Midas
Optrex

Chip on Board (COB)
80 x 16
84 x 32
96 x 16
100 x 32
100 x 64
120 x 32
122 x 32
128 x 64
128 x 128
138 x 110
160 x 32 (Chinese Char. Set)
160 x 128
160 x 140
192 x 32 (Chinese Char. Set)
200 x 16
200 x 32
240 x 64
240 x 128
256 x 64
320 x 240
640 x 200
640 x 240
640 x 480

Chip on Glass (COG)
96 x 40 160 x 128
120 x 32 240 x 64
128 x 32 240 x 320
128 x 128 320 x 240
132 x 33

TN, STN, FSTN
Reflective, Transflective

Logic Supply: 3v, 3.3v or 5v
Parallel/Serial (I²C) Interface

30 Micron Dot Gap
10 and 15 Micron Dot Gap for 'smoother' character appearance.

Operating Temperatures:
Standard (0...+50°C)
Wide (-20...70°C)

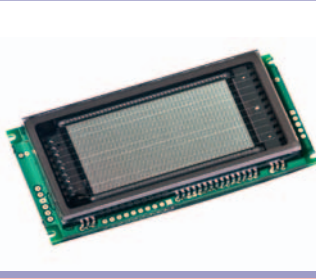
Positive Mode Dark characters on a light background

Negative Mode Light characters on a dark ground

LED Backlight Options: R.G.B. Yellow-Green, White, Blue, Red, Amber, Orange

Products are RoHS Compliant

OPTO ELECTRONICS



TFT LCD

VFD

Midas Components

LED

Low Pass Filters

Batron
Everbouquet
Optrex

Zhejiang BOE

Design and
Development Services

Haw Shuenn
Stanley

Spectrum
Control

1.5" (128 x 128)
1.5" (176 x 132)
1.7" (128 x 160)
1.9" (176 x 220)
2.4" (240 x 320)
2.5" (480 x 234)
2.8" (240 x 320)
3.0" (240 x 400)
3.2" (240 x 320)
3.5" (240 x 320)
3.5" (320 x 240)
3.5" (480 x 234)
4.3" (480 x 272)
4.3" (800 x 480)
4.9" (320 x 96)
5.0" (800 x 480)
5.7" (320 x 240)
6.5" (640 x 480)
8.4" (640 x 480)
8.4" (1024 x 768)
9.0" (800 x 480)
10.4" (640 x 480)
10.4" (800 x 600)
12.1" (800 x 600)
12.1" (1024 x 768)
12.1" (1280 x 800)
14.1" (1280 x 800)
15.0" (1024 x 768)
17.5" (1280 x 800)

Analogue / Digital

Transmissive

Transflective

Anti-Glare

Anti-Reflective

LED and CCFL Backlights

High Brightness Backlights (up to 1500 cd/m²)

Wide Viewing Angles

Touch-Screen Options

Plug and Play Solutions

Driver Card and Interface Solutions

Glass Only

Star Burst Modules

Dot Matrix Modules

1 x 16 Star Burst

1 x 16 LCD Equiv.
85mm x 36mm

1 x 16 11mm C.H.
1 x 16 12.5mm C.H.
1 x 16 14.7mm C.H.

2 x 16 LCD Equiv.
80mm x 36mm
85mm x 36mm
122 x 44mm

1 x 20 5mm C.H.
1 x 20 9mm C.H.

2 x 20 LCD Equiv.
116 x 37
146 x 43

2 x 20 10.5mm C.H.

2 x 40 LCD Equiv.
182mm x 33.5mm

4 x 20 5mm C.H.
4 x 20 9mm C.H.

Graphic VFD

Various

Serial / Parallel Int

Brightness Control

Operating Temperatures Wide (-20...70°C)

Custom VFD at only 500 MOQ

Design Support

We offer full demo capabilities and technical advice to assist our customers' designs.

Engineering Support

Through customer visits, telephone, email and internet.

Semi Custom Solutions:

Adding Connector and Cable Assemblies to Display Modules

Resistor changes

Etc...

Custom Display Modules

Design support and manufacture of display modules to meet customers exact requirement

Full Custom Solutions

Design and manufacture of front panel to include Display, Buzzer, LED's, Key Pads

Etc...

High Power

10W / 20W / 50W / 100W
Green / Blue / White

High Power

1W / 3W / 5W
Red / Green / Yellow / Blue / White

High Power for IR Reflow

1W 3W
Red / Green / Yellow / Blue / White / R.G.B.

Laser

TO-18 / TO-5 / Module

SMD

1210 / 1206 / 1204 / 0805 / 0603

Various lens types

Various colours

Leaded

Various types

Various colours

Infrared

Wave length

940 / 880 / 875 / 850 / 770 nm

Photodiode

Phototransistors

Receiver Modules

Microwave Filters

Solder-in, Press-in or Threaded
Circuit type: C

Qualified to MIL-C-11015

Insertion Loss range: effective filtering from 1MHz to 18GHz

Capacitance: up to 30nF

Rated voltage: up to 200VDC, 115VAC, 400Hz

Current rating: 5 Amps

Temperature range: -55°C to +125°C.

Resin Seal Filters

Solder-in or Threaded

Circuit type: C, L, Pi

Qualified to MIL-F-15733

Insertion Loss range: effective filtering from 1MHz to 18GHz

Capacitance: up to 1.4uF

Rated voltage: up to 2500VDC, 240VAC, 400Hz

Current rating: up to 100 Amps

Temperature range: -55°C to +125°C

Custom options.

Hermetically Sealed Filters

Wide range of thread sizes

Circuit type: C, L, Pi, transient suppression Pi, T and TT

Qualified to MIL-F-15733, MIL-C-28861 and DSCC 84084

Insertion Loss range: effective filtering from 30kHz to 18GHz

Capacitance: up to 5.2uF

Rated voltage: up to 400VDC, 240VAC, 400Hz

Current rating: up to 30 Amps

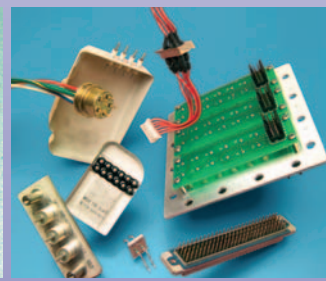
Temperature range: -55°C to +125°C

Custom options.

Sizes and variants added all the time

Products are RoHS Compliant

EMI/EMC PRODUCTS



Filtered Connectors

Surface Mount Filters

Power Filters

Arrays

Patch Antennas and Assemblies / Gaskets and Shielding

Spectrum Control

Spectrum Control

Spectrum Control

Spectrum Control

Spectrum Control

Filtered D-Subminiature Connectors and Adaptors

Ferrite
Chip Cap
Low Profile
High Performance
High Density
Circuit type: Ferrite, C, Pi
Number of lines: 9, 15, 25, 37 and 50 Standard density; 15, 26, 44, 62 and 78 High density
Wide range of connecting and mounting options
Insertion Loss range: 1MHz to 18GHz
Rated voltage: 500VDC to 1000VDC
Current rating: 5 Amps.

Filtered D-Subminiature Combo Connectors

Signal and power pins in standard D sub shell sizes
Wide range of configurations and mounting options
Circuit type: C
Insertion Loss range: 1MHz to 18GHz
Current rating:
Signal 5 Amps,
Power 40 Amps

Filtered & ESD Protection Datacom Connectors

Modular Jack
Mini Din
Miniature Ribbon
USB
Ferrite and Capacitive filtering
Insertion Loss range: 1MHz to 18GHz
Current rating: 5 Amps

Circular Connectors

Tubular and planar filtered arrays using
C, Pi, LC and T circuits
MIL qualified
Insertion Loss range: 1MHz to 18GHz
Rated voltage: up to 1000VDC, 125VAC, 400Hz
Custom options.

Power SM Filters Square SM Filters Round SM Filters Mini SM Filters

Circuit type: C, Pi
Insertion Loss range: effective filtering from 1MHz to 18GHz in a shielded application
Capacitance: 68pF to 0.01µF
Rated voltage: up to 200VDC
Current rating: up to 20 Amps
Temperature range: -55°C to +125°C
Three Terminal Chip Filters

0603
0805
1205
1806
Circuit type: C
Capacitance: up to 0.22µF
Rated voltage: up to 100VDC
Current rating: up to 2 Amps

LC Filters

0603
0805
1206
Cut-off frequency: up to 220MHz
Rated voltage: 25VDC
Current rating: 100mA
Temperature range: -40°C to +85°C

LZ Filters

0402
0603
Band stop filter
Centre frequency range: 10MHz to 2GHz
Current rating: up to 100mA

Also available:

SM Filter Arrays
Mini SM Power Filters
Miniature PCB Power Filters

High Current Feedthru Filters

Bolt-in style
Insertion Loss range:
AC: 1MHz to 1GHz
DC: 150kHz to 10GHz
Capacitance: 4.7µF max
Rated voltage: up to 1000VDC and 240VAC
Current rating: up to 500 Amps
Custom options

Power Entry Modules

Bolt-in rear terminals
Bolt-in right angle terminals
High Frequency Bolt-in with solder lugs
Snap-in with wire leads
Switched and fused
Approvals: UL recognised
CSA certified
TÜV approved

Insertion Loss range: effective filtering from 1MHz to 18GHz

Rated voltage: 250VAC 60Hz
Current rating: up to 15 Amps
Temperature range: -25°C to +85°C
Low leakage current versions for medical applications

Power Line and 3 Phase Power Line

Fast-on or bolt-in terminals or wire leads
Single and dual stage
Plastic and metal cases

Approvals: UL recognised
CSA certified
TÜV approved

Insertion Loss range: effective filtering from 30kHz to 30MHz

Rated voltage: 48VDC to 250VAC 60Hz
250VAC to 440VAC (3 phase)

Current rating:
1 Amp to 100 Amps
3 Amps to 200 Amps (3 phase)

Temperature range:
-25°C to +85°C
-40°C to +85°C (3 phase)

Filtered Terminal Blocks

Barrier Strip
2 to 6 terminals
Circuit type: Pi
Approvals: UL recognised
CSA approved
Insertion Loss range: effective filtering from 1MHz to 18GHz with proper installation
Capacitance: 2500pF to 5200pF

Rated voltage: 250VAC

Current rating: 20 Amps

Temperature range: -55°C to +105°C

Termination options

PCB Mount

2 to 12 terminals

Circuit type: Pi

Insertion Loss range: effective filtering from 1MHz to 18GHz with proper installation

Capacitance: 2500pF

Rated voltage: 100VDC

Current rating: 12 Amps

Temperature range: -40°C to +80°C

5mm or 5.08mm pin spacing

Filter Plates

Bolt-in, Easy Mate®, Shrouded Latch
Circuit type: C, Pi

Insertion Loss range: effective filtering from 1MHz to 18GHz with proper installation

Capacitance: C type: 68pF to 4000pF

Pi type: 68pF to 5000pF

Voltage rating: up to 250VDC

Current rating: up to 5 Amps

Temperature range: -55°C to +125°C

Standard or high density options

Termination options

Single or double row options

Patch Antenna Applications

Satellite based:
GPS Commercial (L1) & Military (L2), Globalstar
Iridium, Inmarsat
Commercial based:
ISM (Industry, Scientific and Medical), Zigbee,
Bluetooth, RFID

SM Patch Antenna Elements

1GHz to 6GHz
Small footprint: 13mm to 50mm square (excluding the ground plane)
Low profile: typically <8mm
Flexible: Antennas can be tuned and optimised very easily making prototyping quick and cost effective
Versatile: transmit and receive circularly polarised signals and linearly polarised signals
Omni-directional

Performance: typical gain response from 0 dBi to 3 dBi for half-power bandwidths of 110°.

Dual Frequency: 45mm footprint with 2 frequencies packaged in single component

Patch Antenna Assemblies

Cable and connector options
"Plug and Play" complete assemblies completely packaged in protective radome
3-D computer modelling to optimise antenna performance

I/O Gaskets

Flat gaskets, Waved Metal gaskets, Fabric over foam gaskets, Woven and non-woven options

Standard D-sub connector shapes 9, 15, 25, 37 and 50 way

Shielding effectiveness range/performance 1MHz to 5GHz

Temperature range: -55°C to +125°C

Fabric over Foam Profile Gaskets

Temperature range: -40°C to +90°C

Tensile strength: up to 80lb/in

Flammability rating: UL94

Shielding Tapes and Fabrics

Wire Mesh Gaskets

Elastomer Core Mesh Gaskets

Conductive Elastomers

AUDIBLE DEVICES



Wound Products

Ferrites

Piezo

Magnetic

API Delevan
Easy Magnet
Kitagawa

API Delevan
Kitagawa

Koyo
KEPO

Koyo
KEPO

RF & Power Inductors Shielded and Unshielded Ranges

Military operating temperature range: -55°C to +125°C available on many types

Close tolerance options to $\pm 1\%$ on many ranges

Termination finish options: RoHS Compliant, Traditional lead based, QPL

Custom designs

Surface Mount Types

Inductance : RF : 1nH to 27mH

Power : 0.22 μ H to 22mH

Power types current ratings to 24 Amps

MIL spec approvals :

- RF types to MIL-PRF-83446
- Power types to MIL-PRF-27

RF : COTS equivalents

Application specific styles:

RF types : Micro-I, Wire bondable, Low profile, Temperature stable, High Q Air core, High SRF, Toroidal, Multilayer ceramic

Power types : Micro-I, Low profile, Toroids, Power chokes, Low profile power toroids, High current power toroids, Low loss toroids

Design kits

Leaded Types

Axial styles

RF : Inductance 0.1 μ H to 33mH

MIL spec approvals to MIL-PRF-

15305, MIL-PRF-39010 -

established reliability ranges to failure rate level R, COTS equivalents

Epoxy molded construction, Variable types

Power : Inductance 0.22 μ H to 100mH, current ratings to 9.75Amps

Lead forming

Radial Styles

RF : Inductance 0.1 μ H to 150mH

Toroidal types, Variable types

Power : Inductance 1 μ H to 15mH, current ratings to 19.9 Amps

Application specific styles: Horizontal and vertical mount power toroids, Filter chokes, Power line chokes, HF switchmode power toroids

Transformers

Surface mount and leaded common mode versions - Low profile types - Switchmode types on a variety of ferrite cores.

Ferrite Beads Leaded Types

Wide range of impedances available

Termination finish options: RoHS Compliant, traditional lead based

Axial Filter Beads

Wound Beads

From 1_ to 4_ turns

Surface Mount Types

Wide range of impedances available

Termination finish options: RoHS Compliant, traditional lead based

Current ratings to 9.5 Amps

Filter Bead

Common Mode Bead

High speed, high frequency and general circuit types

Bead Arrays

Available in package sizes from 0402 to 1812

Cable Clamps

Split Types for Round Cable

Cable diameters from 3 to 27mm

Flat types

Cable widths from 6.5mm to 65mm

Cylindrical Types

Internal diameters from 0.8mm to 36mm

External diameters from 2.5mm to 61.4mm

Materials

Effective EMI suppression over a wide frequency range - 10MHz to 3GHz

Flexible Ferrite Absorbent Tubing

Internal diameter from 1.8mm to 10mm

External diameter from 2.9mm to 14mm

Flexible Ferrite Absorbent Material

Sheet thicknesses from 0.25mm to 2.5mm

Sheet sizes from 100mm x 100mm to 400mm x 400mm

D Sub Connector Ferrite Plates

9 way to 37 way options

Piezo Diaphragms

Brass, steel, and alloy versions

With or without flying leads

External drive or self drive types

10 to 30mm diameters

Frequencies from 2KHz to 10KHz

Ringers & Transducers (Buzzers)

Continuous tone

Require external drive electronics

2 and 3 connection versions

PCB pin and flying lead options

Washable PCB case types

Frequencies : 0.8KHz through to 4.8KHz

SPL : up to 95dB at 30cm

Rated Voltage : 12Vp-p

Max Voltage : 30Vp-p

Voltage on 3 pin type : 9VDC, 12VDC, and 30VDC

Ringers & Transducers (Buzzers)

Continuous, slow pulse, fast pulse, and mixed tones

Built in driving circuit

PCB pin, flying lead and panel mount options

Washable PCB case types

Frequencies : 2.0KHz through to 4.0KHz

SPL : up to 105dB at 30cm

Rated DC Voltage : 3VDC, 6VDC, 9VDC, 12VDC, 24VDC

AC type voltages : 12VAC, 110VAC, 220VAC, 230VAC

Transducers (Buzzers)

Continuous tone

Require external drive electronics

PCB pin and flying lead options

Surface Mount Versions

Washable PCB case types

Side aperture versions

Frequencies : 1953Hz through to 3100Hz

SPL : up to 98dB at 10cm

Rated Voltage : 1.5V, 5V, 6V, 12V

Square wave, 1/2 duty

Buzzers/Sounders

Continuous tone

Built in driving circuit

PCB pin and flying lead options

Washable PCB case types

Frequencies : 400Hz through to 3100Hz

SPL : up to 85dB at 10cm

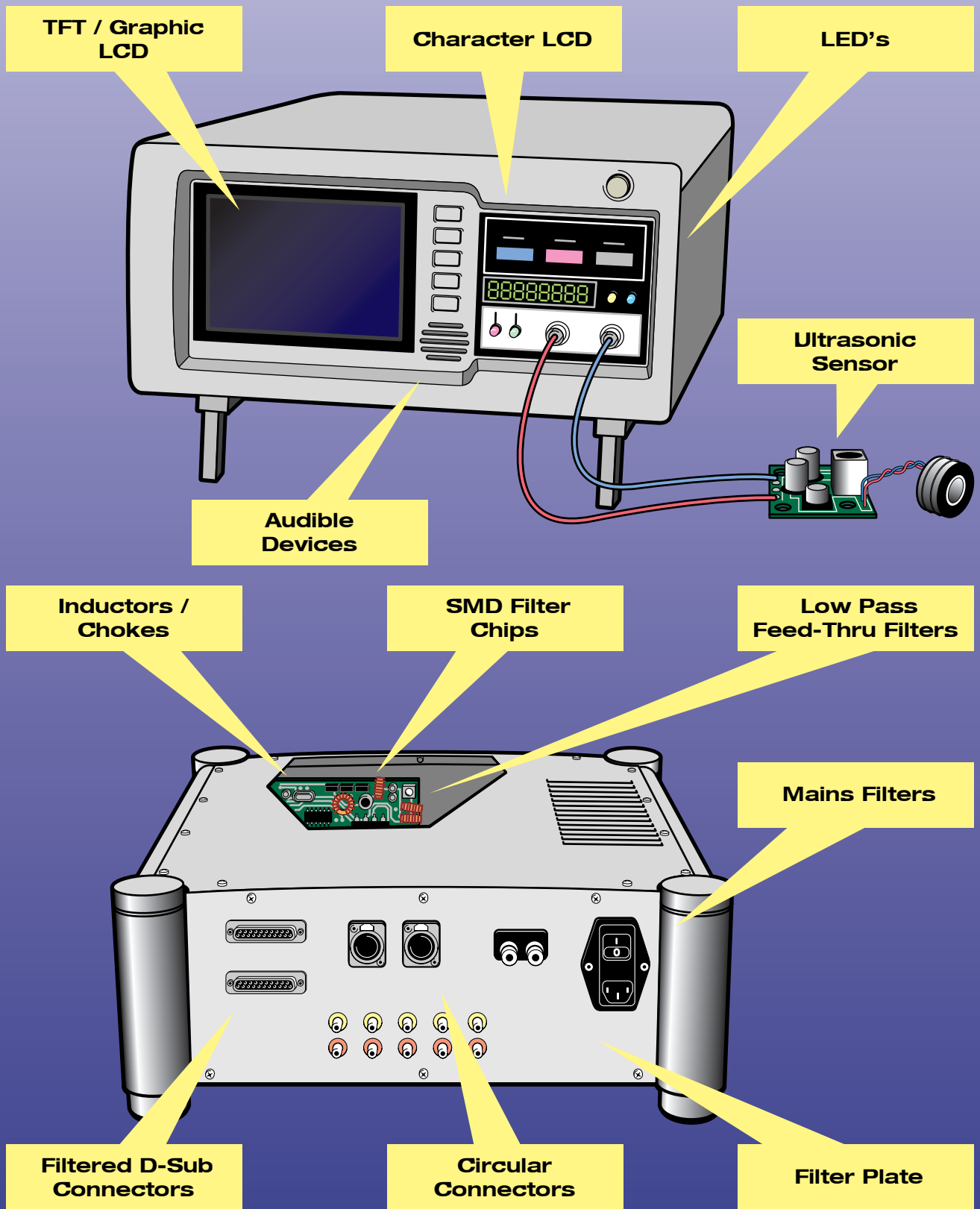
Rated Voltage : 1.8VDC, 3VDC, 5VDC, 9VDC, 12VDC

Sirens available on request

Custom potential on all audible technologies

Products are RoHS Compliant

FROM DESIGN CONCEPT TO FINAL PRODUCT FRUITION



CATALOGUE

THE SPECIALIST ELECTRONICS COMPONENTS DISTRIBUTOR
SUPPORTING CUSTOMERS FROM
DESIGN CONCEPT TO FULL PRODUCTION

AUDIBLE PRODUCTS

DISPLAYS

EMC / EMI

FERRITES

LED / LAMPS

ULTRASONIC SENSORS

WOUND PRODUCTS



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