

Alcommunication

FOR DESIGN ENGINEERS

Displays & Opto

Passives &
Electromechanical

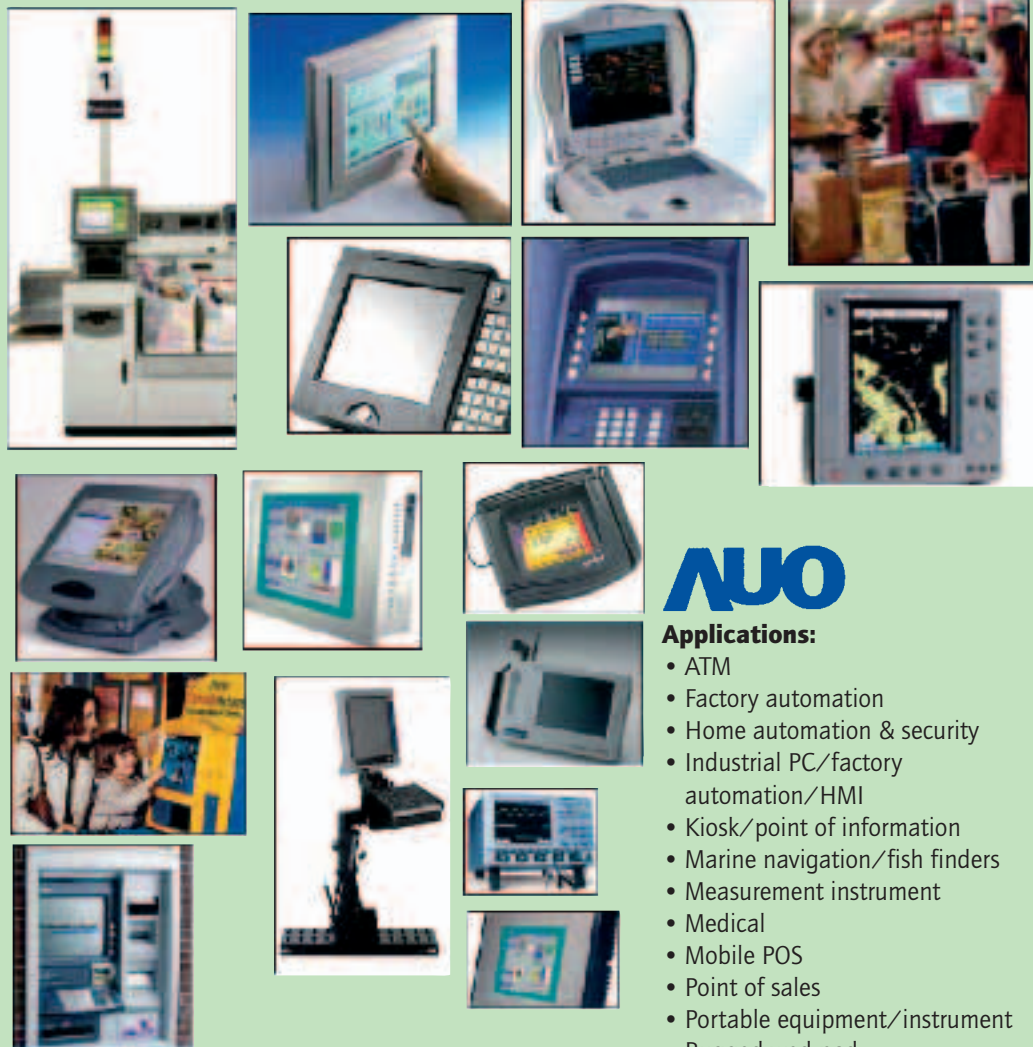
Power Conversion

Des Modules Electroniques dédiés

Dans notre assortiment de produits, vous trouverez des solutions pour toutes les architectures courantes de bus, destinées à pratiquement toutes les applications. Alcom compose des "solutions sur mesure" comprenant le CPU et les cartes périphériques, la mémoire, les écrans d'affichage et tous les accessoires nécessaires. Alcom collabore avec des partenaires renommés comme Evalue, Lippert, Seco, TQ et AUO - le principal fabricant de TFT de Taiwan - en vue de fournir des produits de qualité supérieure. Contactez-nous pour un entretien sans engagement afin d'étudier votre application particulière.

Complete Embedded Oplossingen

In ons productassortiment vindt U oplossingen voor alle gangbare Busarchitecturen voor nagenoeg elke toepassing. Alcom stelt een "op maat oplossing" tesamen bestaande uit CPU & peripheral boards, geheugen, displays en alle benodigde toebehoren. Alcom werkt samen met gerenommeerde partners zoals Evalue, Lippert, Seco, TQ en AUO - Taiwan's grootste TFT fabrikant, dit om een hoogwaardige kwaliteit te garanderen. Contacteer ons voor een vrijblijvend gesprek om uw applicatie door te spreken.



AUO

Applications:


- ATM
- Factory automation
- Home automation & security
- Industrial PC/factory automation/HMI
- Kiosk/point of information
- Marine navigation/fish finders
- Measurement instrument
- Medical
- Mobile POS
- Point of sales
- Portable equipment/instrument
- Rugged wed pad
- Small kiosk

AUO

AUO 8,4", 10,4", 15", 17", 19" TFT panels

AUO is the world's 3rd largest manufacturer of large-size TFT-LCD panels. AUO has founded the Industrial General Display division to serve the Industrial Display market with high performance, high reliability products and longer term product support. AUO has appointed Alcom to sell and promote their products in the Benelux.

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 **Alcom electronics nv/sa**

SINGEL 3 - B-2550 KONTICH - TEL. 03-458.30.33 - FAX 03/458.31.26 - info@alcom.be - www.alcom.be

G084SN05 V.0/V.1/V.2 8.4" SVGA industrial grade TFT-LCD module

Small, powerful, versatile! Suits your needs for various applications!

Features:

- High resolution SVGA: 800x600
- High brightness: 350nits
- Thin and light
- Wide viewing angle
- High contrast: 350:1
- Long lamp life: 50.000 hrs
- Various interface: LVDS (V.0), TTL and analog (V.2)
- Reverse scanning: V.2
- Touch panel integrated: V.1

Applications:

- ATM's
- Mobile POS
- Small kiosk
- Industrial PC
- Factory automation
- Portable equipment/instrument
- Home automation & security
- Marine navigation



AUO ref 040901

B104SN02 10.4" SVGA industrial grade TFT-LCD module

Higher resolution and better performance for industrial applications!

Features:

- SVGA: 800x600
- High brightness: 400nits
- Wide viewing angle
- High contrast: 500:1
- Long lamp life: 50.000 hrs
- LVDS interface (low EMI)

Applications:

- ATM's
- Point of sale
- Industrial PC/factory automation/HMI
- Medical
- Marine navigation/fish finders
- Measurement instrument
- Home automation & security



AUO ref 040902

G150XG01 15" XGA industrial grade TFT-LCD module

Expanding your applications larger and better!

Features:

- High brightness: 350nits
- High efficiency: <12Watt
- Wide viewing angle
- Low Reflection coating
- High contrast: 400:1
- Long lamp life: 50.000 hrs
- PSWG (industrial standard)

Applications:

- Point of sales
- ATM
- Kiosk/point of information
- IPC/factory automation/HMI



AUO ref 040903

Product overview

- Minimum 3 year product life support for all 8,4", 10,4" and G models
- Touchpanels available upon request
- For other sizes, please contact Alcom for further information

Partnumber	Size	Resolution	Viewing angle	Brightness	Interfacing	Specific
B084SN02	8,4"	SVGA	120H/100V	150 nit	1 ch LVDS	contrast 350:1, 3,3 watt
B084SN03	8,4"	SVGA	120H/100V	220 nit	1 ch LVDS	contrast 350:1, 3 watt
G084SN05	8,4"	SVGA	120H/100V	350 nit	LVDS, TTL and analog	backlight lifetime 50K hours
B104SN02	10,4"	SVGA	120H/100V	400 nit	1 ch LVDS	contrast 500:1, backlight lifetime 50K hours
G104SN03	10,4"	SVGA	120H/100V	230 nit	1 ch LVDS	3,3 watt
G104SN05	10,4"	SVGA	120H/100V	1500 nit	1 ch LVDS	contrast 500:1
G150XG01	15"	XGA	120H/100V	350 nit	1 ch LVDS	PSWG, backlight lifetime 50K hours
M170EG01	17"	SXGA	140H/V	300 nit	2 ch LVDS	PSWG, contrast 500:1, 12 ms response time
M190EN03	19"	SXGA	170H/V	250 nit	2 ch LVDS	contrast 700:1, premium MVA mode
M190EN04	19"	SXGA	140H/V	400 nit	2 ch LVDS	contrast 500:1, 12 ms response time

Embedded LCD-display 240x128 with intelligence

Features:

- RS-232 + I²C-Bus + SPI on board
- Integrated graphic functions
- Text function on board
- Flexible character sets
- Touch panel controller on board
- Single supply +5V
- Blue-white or black-white



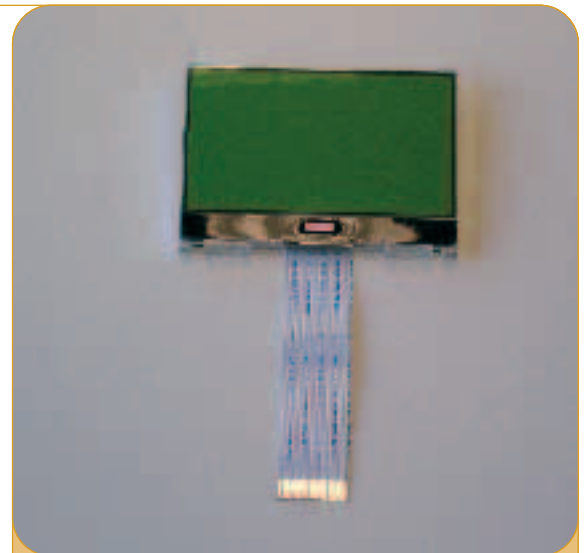
■ **Electronic Assembly** ref 040904

G5035 compact COG module

CCT added the G5035, a low-power 128x64 graphic module, to its COG family. Due to the usage of Chip on Glass technology the module glass + controller has a very compact outline. Specific feature of this 128x64 graphic module is its low-power consumption. This enables the 5035 to be used in a wide variety of applications like POS, handheld equipment, and many more in which space and/or power is an issue. On top of this the 5035 is very attractively priced.

Features:

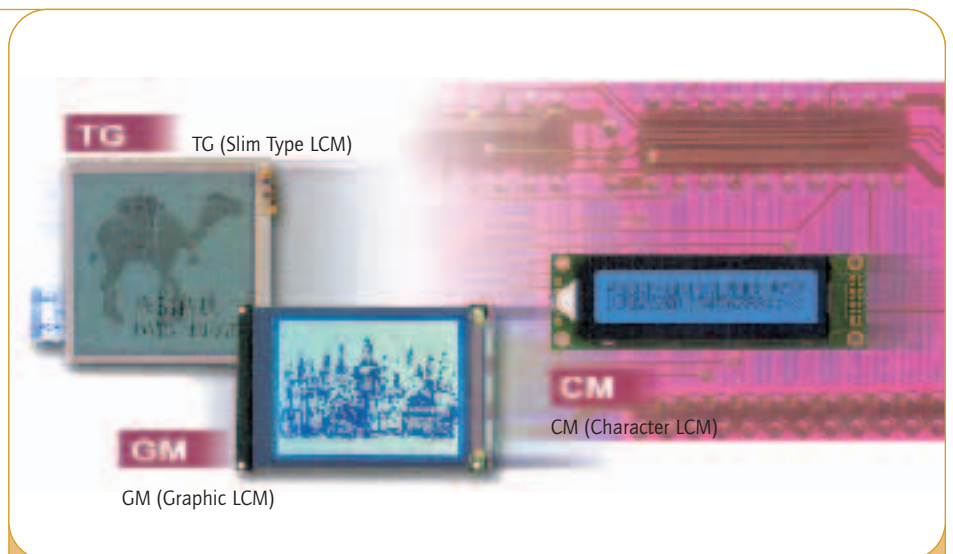
- Viewing area 70.70 x 38.80 mm
- Outline dimension 76.10 x 53.80 mm
- With or without backlight, yellow green, white or blue (I_f = 60mA typ)
- S1D10605D00B
- Heat-seal connector
- V_{dd} 3V (typ) 3.6V (max)
- I_{dd} 250 μA (typ)



■ **CCT** ref 040905

Standard LCD modules

Data Image offers a full range of STN LCD modules. They are divided into three groups, such as: Slim Type, Graphic and Alphanumeric. They are including FSTN, STN, TN and a variety of options for our picky customers.



■ **Data Image** ref 040906

Opto-electronic components

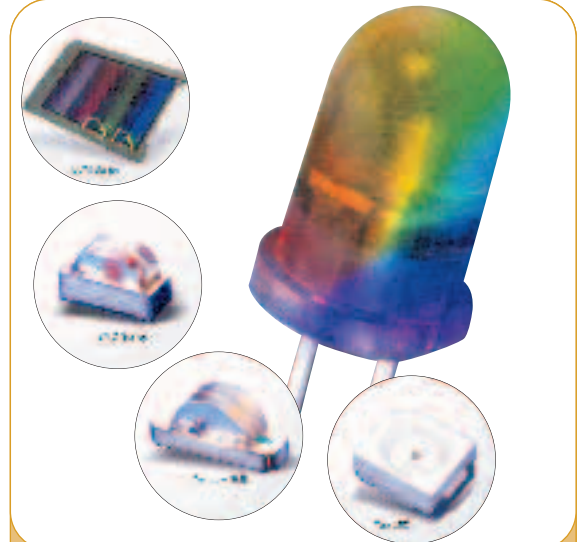
Apex manufactures 100 Million premium infrared products, visible Led products and applicable modules each month.

Apex product range:

- SMD LED's
- LAMP LED's
- Ir&Ir received modules
- TOP LED's
- Rainbow LED's
- LCD modules

Apex offers:

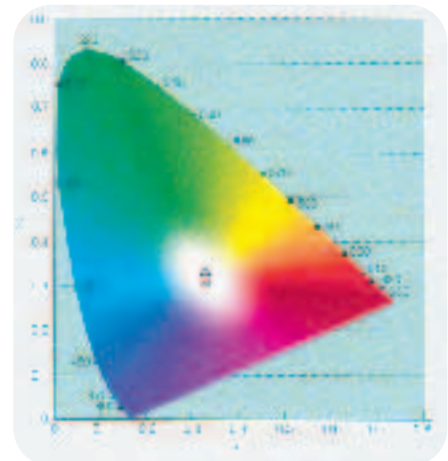
- Outstanding quality
- Fast delivery
- Best service
- Attractive price



■ Apex SE ref 040907

LED's – Any color, as long as it's white

It is widely believed that general lighting will one day become a huge market for white-light LED's. Which white do you need? The diagram shows the International Commission on Illumination (CIE) x/y chromaticity chart. The visible light of the sun is an additive color mixture of all of the hues associated with its radiation in the 380-780nm wavelength range. In terms of blackbody temperature, it is ~ 5400K. Similar spectra are referred to as equal energy white (EEW) light. EEW is important, as it is the nominal color temperature that the human eye has adapted to, and as such, is seen as the ideal "white light".



■ Toyota Gosei ref 040908

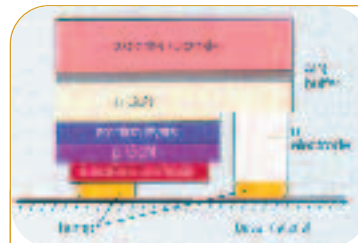
Toyota Gosei's recent white LED developments

2001

- **TG White Hi:** based on high-brightness blue LED and new yellow phosphor, giving a more consistent color uniformity and a higher luminosity
- **TG White MP:** a trichromatic white source, comprising red, green and blue phosphors all illuminated by a purple flip-chip LED. Provides greater color-control and stability despite temperature variations.

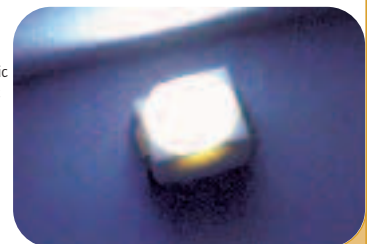
2002

- **True-White Hi:** (E1S40 family) has much higher optical power (265 mcd) than the White Hi. Also powered with a flip-chip purple LED. Produces a broadband white light similar to EEW, and virtually eliminates off-angle color variations and halo effects. Currently available in sample quantities, it emits 1-2 lm per package.



TG's flip-chip GaN-on-sapphire LED leads to improved thermal management and package designs

The full spectrum polychromatic white LED technology, the first of its kind in the industry, is based on a purple LED and an RGB phosphor



■ Toyota Gosei ref 040909

72 and 144 pin male connectors – guiding functionality available to ease mechanical mating requirements



■ EPT ref 040910

Features:

- Coding functionality available
- Max data rate > 2,5 Gbps
- Optional endwall for contact protection
- Suitable for lead-free process

72 and 144 pin female connectors – guiding functionality available to ease mechanical mating requirements



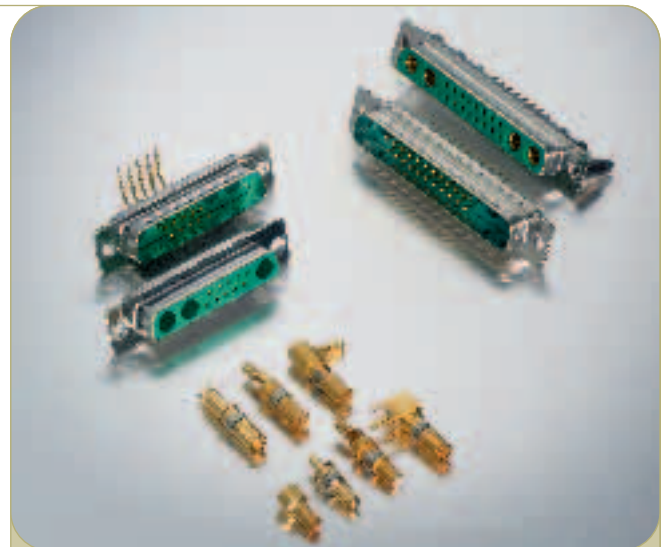
■ EPT ref 040911



■ EPT ref 040912

Combi connectors for signal, high power/voltage & coax

D-Combi connectors offer the possibility to have a blend of contact types within the same insulator body. Due to its construction, the connector can be customised to include a variety of combinations of contacts including signal, high power, high voltage and coax. A number of combinations both in male and female configurations is available in five housing sizes. The available dimensions meet DIN-41652 and MIL-C-24308 specifications. The insulation body, a monobloc made of self-extinguishing thermoplastic meets UL94V-0 specifications. The turned contacts are available in various quality grades. In addition, the D-combi connector is also available in Press-Fit versions.

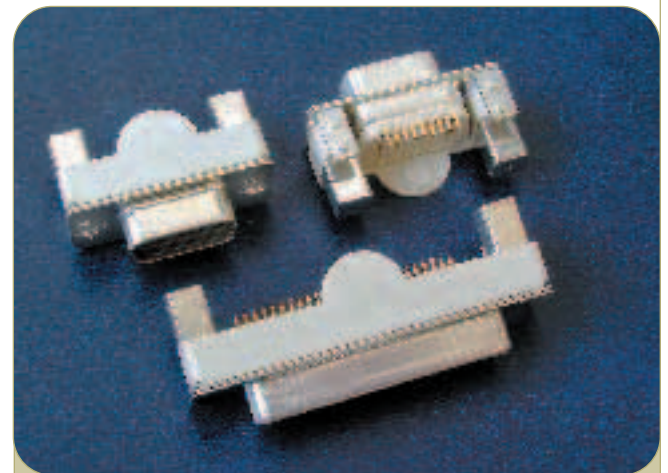


■ Deltron ref 040913

D-Sub filter connector

Features:

- Mounting height 6.3 mm
- Plug or socket
- 09 to 37 ways
- Filter values 330 to 5600 pF
- Reel outside diameter 330 mm
- 150 pieces per reel



■ Deltron ref 040914

Very high density cable interconnects

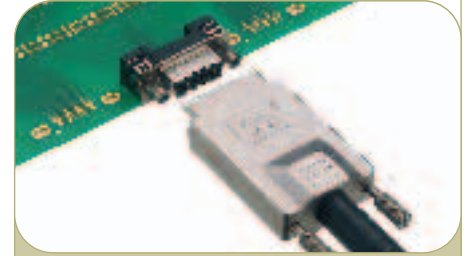
This connector is structured with 68 pins in a narrow 2-line pitch of 0.8 mm between connectors and enables high package density. The board-side (single-stage-type) connector is a low profile type of 6.0 mm from the board surface. To protect the signal circuit, the shield shell touches before the contacts touch. The cable-side connector takes a closed metal shell shield structure. This metal shield is made in over-mold for the complete EMI/ESD measure.



■ **Honda** ref 040915

Infiniband I/O Connectors

Honda Connectors has introduced its first Infiniband I/O connectors, designed for easy assembly in high-speed differential signal applications. The new connectors conform to the Infiniband architecture's 4X interface.



■ **Honda** ref 040916

Wire-to-board connectors on 2.0 mm pitch

W+P Products extended its portfolio of wire-to-board crimp-style connectors with a family of low profile wire-to-board applications on a 2.0 mm pitch. The 521 series is compatible with the series PH of JST and is UL- and CSA approved. The crimp terminals are designed for wire gauges from 22 to 28 AWG. Every contact can be loaded with 2A. A functionally safe connection is guaranteed in a temperature range of -25 to +85°C. The housing of the wire-to-board connector 521 is available with 2-16 contacts.



■ **W+P** ref 040917

Flat micro connector detachable wire to board applications

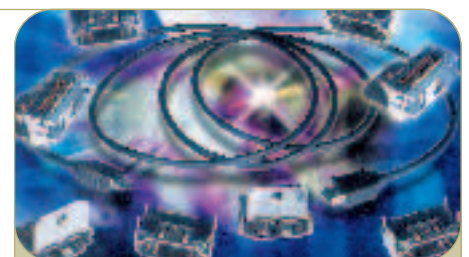
W+P Products presents a series of flat micro connectors belonging to the type of detachable wire to board applications. The series is available in a pitch of 2,54mm and is compatible with the Micro-Match series of AMP. Designed for flat ribbon cable with a pitch of 1.27 mm, the micro-series is fitting for a wire cross section of AWG28. A functionally safe connection is guaranteed in a temperature range of -40 to +105°C. The cost-efficient micro connectors are available as SMT-version as well as THT-version.



■ **W+P** ref 040918

HDMI digital interconnects compliance tested for audio-video applications

HDMI carries high-bandwidth, uncompressed video and multi-channel digital audio in a single cable, and has a smaller connector size than the current DVI standard. DC1-series connectors are 19-pole, 1.0mm pitch, lead-free connectors rated at 0.5A per contact, fully compliant with the HDMI version 1.0 specification. Male and female types are available in SMT and through hole versions, with or without a flange for chassis mounting.



■ **JAE** ref 040919

FI-E Series Connector

Along with digitalisation trends, cases where LVDS is used for internal wiring in commercial-off the shelf products such as TV's are increasing. In response to this trend, JAE has developed the "FI-E Series" connector for board-to-wire connection that combines both electrical considerations for LVDS transmission and mechanical considerations for TV interiors this time.



■ **JAE** ref 040920

**ENERGY
SAVING**
EPSON

Ultra-small, high frequency oscillators SG-350/550 programmable version SG-8002LA/LB

EPSON's new SG-350LA and SG-550LB (5 x 3.2 x 1.2mm) meet the challenge of miniaturization and micro fabrication of IC's without sacrificing frequency stability.

The new structure, created by combining their original plastic molding technology with their ceramic packaging technology, is superior to ceramic package products on absorbing stress from board, providing high reliability against physical shocks. It also offers outstanding assembly characteristics. This oscillator is fully size-compatible to the programmable PLL-type SG-8002 LA/LB. This allows profiting from a minimal lead-time for your design activities using the programmable oscillator, and getting the performance advantage of the SG-350LA or SG-550LB for your mass production.



■ EPSON ref 040921

Specifications	SG-350	SG-500	SG-8002LA	SG-8002LB
Output frequency	2.0 to 48.0 MHz	1.0 MHz to 80 MHz	1.0 MHz to 80 MHz (5V) 1.0 MHz to 125 MHz (3.3V)	
Frequency stability (operating temperature)	B: $\pm 50 \times 10^{-6}$ (-20 to +70 °C) C: $\pm 100 \times 10^{-6}$ (-20 to +70 °C) M: $\pm 100 \times 10^{-6}$ (-40 to +85 °C) L: $\pm 50 \times 10^{-6}$ (-40 to +85 °C) S: $\pm 25 \times 10^{-6}$ (-20 to +70 °C)		B: $\pm 50 \times 10^{-6}$ (-20° to + 70 °C) C: $\pm 100 \times 10^{-6}$ (-20° to + 70 °C) M: $\pm 100 \times 10^{-6}$ (-40° to + 85 °C) L: $\pm 50 \times 10^{-6}$ (-40° to + 85 °C, $V_{DD} \pm 5\%$) (3.3V)	
Operating Voltage	1.8 V, 2.5 V, 3.3 V Typ.		3.3V and 5.0V	
External dimensions	3.3 x 2.6 x 1.15 mm	5.0 x 3.2 x 1.15 mm	3.3 x 2.6 x 1.15 mm	5.0 x 3.2 x 1.15 mm

FA-238V Ultra-thin crystal unit package dimension of only 3.2 x 2.5 x 0.7 mm³

A mere height of 0.7mm sets a new landmark in the dimensions of crystal units. This new AT-cut crystal can currently be provided in frequencies between 11 and 16 MHz. The frequency tolerance lies at $\pm 50 \times 10^{-6}$ at a standard load capacity from 7 pF. High reliability and accuracy are essential features of this device. The FA-238V is packaged in SMD ceramic with external dimensions of 3.2x2.5x0.7 mm³. This makes it suitable for even extremely small applications and will be appreciated by design engineers of PDA's, cellular handsets or bluetooth related products.



■ EPSON ref 040922

MG-5020JE dual output crystal oscillators for USB devices, PC's, workstations, server, office equipment, etc...

In response to market demands for higher integration, Epson has released a dual output crystal oscillator MG-5020JE series that provide 32.768 kHz and 48 MHz frequencies in one compact package (7x5.4x1.5 mm³). Since many USB applications require both frequencies, the MG-5020JE is the perfect choice for simplifying design and reduction of needed parts. The wide operating temperature range (-40 to +85°C) enables these devices to be used also in industrial PC applications. With stabilities of $5 \pm 23 \times 10^{-6}$ for the 32.768kHz frequency and $\pm 100 \times 10^{-6}$ for the 48 MHz frequency, Epson provides standard solutions even on a very high technological level.



■ EPSON ref 040923



NIC Components,
the perfect partner
for your board

Capacitors • Ferrites • PASSIVES • Inductors • Resistors



NIC is a global leader in passive components. Our comprehensive portfolio is the efficient designers dream providing all the passive components you need from one supplier.

The capacitor and magnetic range represent our core products. More specifically we offer the widest available range of electrolytic capacitors (SMT & Leaded) and specialise in Low ESR and RF products.

Complementing the product range is exceptional levels of service, with seamless, real time access to large European and Global real time access to large European and Global inventories. We will even optimise your supply chain with flexible logistic and e-commerce solutions: EDI, JIT, VMI... PDQ!

So, NIC really is the PERFECT PARTNER!

Get all the information you need from www.niccomp.com and while you're there take a look at our specialised sites www.lowesr.com and www.rfpassives.com

NIC[®]
NIC COMPONENTS

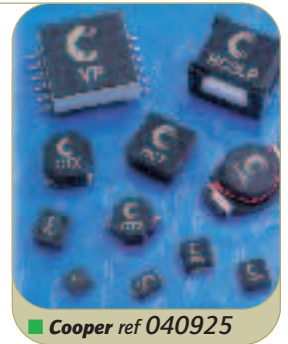
seriously passive[™]

■ Nic ref 040924

Magnetics



Cooper Electronic Technologies offers Coiltronics transformers and inductors for DC-DC and switchmode applications requiring high frequency magnetics. Selection guides for Fly-back applications, inductor and magnetics selection guides are available. Coiltronics power inductors are used in reference designs and demo boards from IC manufacturers such as: Linear Technology, Micrel, TI, NSC, Semtech, ON Semi, Intersil and Maxim

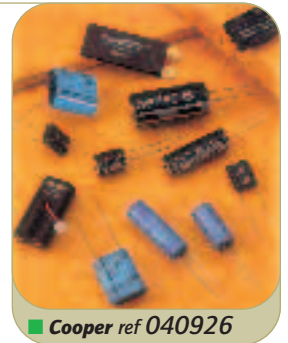


Cooper ref 040925

Supercapacitors



Cooper Electronic Technologies introduces PowerStor Aerogel Capacitors, unique ultra-high capacitance devices based on a novel type of carbon foam known as carbon aerogel. These "supercapacitors" are Electrochemical Double-Layer Capacitors (EDLCs) and have 2,000 times the volumetric capacitance of standard aluminum electrolytic capacitors, with extremely low ESR (Equivalent Series Resistance) values. To determine your supercapacitor requirements, there is a PowerStor Aerogel Supercapacitor calculator available.



Cooper ref 040926

Overcurrent

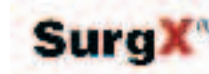


Cooper Electronic Technologies' SMT Chip Fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent temperature cycling characteristics during use and also makes our Chip Fuses more heat and shock tolerant than typical subminiature fuses. The 3216 (1206), 1608 (0603), and 1005 (0402) packages ensure full process compatibility with your manufacturing operations. These popular CHIP and BRICK fuse families are now available in RoHS compliant versions. (XX-R Suffix)



Cooper ref 040927

Overvoltage



SurgX® is a unique polymer-based voltage variable material that is a combination of conductive and non-conductive particles contained in a polymer matrix. The SurgX product family is designed to protect sensitive electronic circuits from the damaging effects of Electrostatic Discharge (ESD).

Applications:

- Low Voltage, Board Level Designs
- Data Line Protection
- Mobile Communications
- Computers and Peripherals
- Hand-held Test Equipment



Cooper ref 040928

Telecom Circuit Protector



Cooper, has ended its exclusive marketing relationship with Teccor Electronics to private label Bussmann's TCP series of fuses for Teccor customers in the telecom market. Telelink fuses specified in electronic designs under the Teccor brand name can now be sourced direct from Alcom electronics. Bussmann TCP fuses-TCP500mA, TCP1.25A and TCP2A, are the devices sold by Teccor respectively as F0500T, F1250T, and F1251T under the Telelink brand, and therefore have identical mechanical and electrical characteristics. The TCP was the first telecom circuit protector designed to protect against power cross fault and comply with surge requirements for the telecom industry.



Cooper ref 040929

New DC/DC SMT Planar Transformers offer over 290 winding configurations

The PA08XX 140Watt and PA09XX 250Watt planar transformer series are over 98% efficient, have a power density of 600Watt/cubic inch, and a profile of only 0.34 inch (8.636mm) and 0.36 inch (9.144mm) respectively. The two series consist of 45 off-the-shelf catalogue parts that can be arranged in 293 different winding configurations. Adding a primary auxiliary winding or a small gap to the transformer expands the number of possible configurations to over 1000. The PA08XX and PA09XX series are intended for use with forward, full-bridge, half-bridge and push-pull topologies in applications with input voltage between 18 and 75 volts and output voltages from 52 Volts down to 1.x Volts.



Pulse ref 040930

Shielded inductors for DC-to-DC power conversion

The new PF0464/PF0465 series, which are available as lead-free components, have a high current rating of 4.5 Amps (A) in a low-profile (3mm height for the PF0464 and 4mm height for the PF0465), small footprint package (7.2mm x 7.2mm max) with inductance values up to 100 microHenries (mH). Their extended operating temperature of -40°C to +125°C makes them suitable for high-temperature applications such as telecom and consumer electronics products.



Pulse ref 040931

Gigabit discrete magnetics comply with Ethernet IEEE802.3i/u/ab

The HX5 series is the first series of discrete gigabit parts with an operating temperature range of -40°C to +85°C to comply with Ethernet standard IEEE 802.3i/u/ab. The device has the smallest footprint (27.94 x 10.92 mm) of any extended-temperature dual-port discrete gigabit component on the market today. The HX5008 fits directly behind a 1x1 RJ45 connector for maximum space saving on a printed circuit board. HX5012, HX5014, HX5020 are gigabit designs for dual-port high-density packet-switch applications.



Pulse ref 040932

SMART Diplexer™ series meets European RoHS and Pb-free initiatives

A new family of low-cost Scalable Modular and Robust Technology (SMART) diplex filters are available as RoHS and Pb-free compliant Products. The components are preset at the factory to the desired frequency bands, eliminating the cost to the end-user of tuning the module in final assembly; and the common footprint simplifies board layout for devices that must operate at different frequencies. Ideal for cable modems, set-top boxes, fiber to the premises (FTTP), and hybrid fiber/coax (HFC) equipment, the modules provide a convenient and cost-effective design solution to meet the fast-changing demands of customers and technology.



Pulse ref 040933

PSDM, power stage driver modules

A brand new highly sophisticated technology in the field of Power electronics for reliable driving and save operation of Power Semiconductors like IGBT and MOSFET's up to 600V

- **PSDM-ODN1-5040:** DC/DC converter for IGBT/MOSFET gate driver
 - **PSDM-ODT2-5020:** Single isolated IGBT/MOSFET gate driver
 - **PSDM-OD02-5040:** Single isolated IGBT/MOSFET gate driver
- The main features of this new line are the following:
- Reliable driving and safe operation of Power Semiconductor like IGBT or MOSFETs up to 600V
 - 3 Different modular solutions single DC/DC converter, DC/DC converter with integrated optocoupler, DC/DC converter with integrated pulse transformer
 - Unique diagnostic output allowing the user to monitor the converter output voltage to avoid damages in the power stages due to under voltages



■ Timonta ref 040934

- Electrical isolation of 3500 VAC
- Switching frequency from 100-500kHz
- Overload current and short circuit protection
- For conventional board assemblies
- High modularity

T9-Series, circuit breakers for equipment

T9 is a single pole thermal circuit breaker with cycling trip-free release in a compact housing. The attractive design offers snap-in mounting, quick connect terminals and push to reset operation. Rated currents available from 4A up to 16A. Typical applications are power supplies, charging units, power tools, household appliances, electrical machines for leisure and hobby.

CSE 15 uG Capacitive switch with the smallest dimensions

The smallest switch surfaces of 15 mm x 15 mm make up the newest variations of Schurter's capacitive single switches. The CSE 15 uG (Capacitive Switch Element under glass) is a capacitive switch, which is actuated simple through proximity or the slightest touch of a finger. Through a fine degree of sensitivity, which is set in the production process, these switches can be used behind non-conductive materials (glass, plastic, wood, ceramic, etc.) up to 20 mm. New for these switches is also the simple connection technology using a PCB plug.

Input systems in attractive yet rugged design

The vandal-proof switches and keypads:

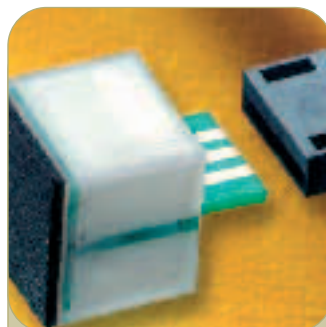
- Are ideally suited to applications in hostile environments
- Come in various shapes, colors and sizes
- Are available in illuminated versions
- Have a long service life
- Offer a high mechanical resistance

Ring illuminated Piezo switch for small mounting space

Schurter's new ring illuminated piezo switch, the PSE M22R, is a vandal protected device ideal for use in tight spaces. With a 20 million life cycle operation, the switch requires little servicing. Unlike mechanical switches, piezo switches have no moving parts, offering the advantage that even under continuous operation, there is no risk of loss of function due to parts wearing out. The switches are completely sealed by design and all the electronics are encapsulated inside the housing. No fluids or dirt can therefore penetrate inside the switch. The switches are rated to IP 67 specifications and an O-ring is supplied to seal the front plate.



■ Schurter ref 040935



■ Schurter ref 040936



■ Schurter ref 040937



■ Schurter ref 040938



10W converters in a miniature DIP package!

- 10W output power
- Wide 2:1 input ranges
- Tight line/load regulation
- Short circuit protection
- Industry standard pin-out
- Low cost

■ **Micro Power Direct** ref 040939



1W & 2W in MINIDIP Cases

- 1kV or 3kV isolation
- Singel & dual outputs
- Regulated models
- 5, 12, 24 & 48V inputs
- Industry standard pin out
- Low cost

■ **Micro Power Direct** ref 040940



7W Wide input SMT DC/DC converters

- SMT Mountable
- 7.5W Output Power
- 2:1 Input Range
- 1,500 VDC Isolation
- Single/Dual Output
- Industry Standard

■ **Micro Power Direct** ref 040941



Compact 1" x 2" 10W 5VDC input DC/DC converters

- 5 VDC Input
- 10W Output Power
- Meets EN55022 "A"
- 1,500 VDC Isolation
- 1 x 2 x 0.4 Inch Case
- Low Cost

■ **Micro Power Direct** ref 040942

SynQor releases 12V input POL DC/DC converters

SynQor has recently released a series of 16A non-isolated DC/DC converters with a 12V input. The NQ12 modules, part of the NiQor family, are available in both an industry standard SIP (single-in-line packaging) and lead-free surface mount (SMT) form factor. The new point-of-load converters deliver 95% efficiency and are offered in nine different fixed output voltages from 0.9V to 5.0V as well as a wide trim version that can be adjusted with a single resistor.



■ **Synqor** ref 040943

SynQor introduces wide input, 360W Half-brick DC Bus Converter

SynQor has released a wide input, isolated dc bus converter that delivers up to 360 Watts in a standard half-brick package. The BusQor HEA module supports a wide input of 35-75V and is ideal for 12V intermediate bus architectures for telecom applications. Unlike most conventional bus converters, SynQor's HEA series accommodates the standard telecom input bus while providing an isolated, tightly regulated (+2%) step down voltage from 48V to 12V at up to 30 amps. A patented regulation stage topology enables ultra high efficiency of 95% at full load while maintaining tight regulation across the full input range.



■ **Synqor** ref 040944

Rack mounting hybrid 4-quadrant amplifier primary switched 1000 Watt

- Input AC 230V, 47-63Hz
- Assembly acc. to EN60950
- EN55011-B, EN61000-3-2, EN50082-2
- Universal AC-/DC-output
- Suitable for high crestfactors
- 6,5kW peak power
- Short circuit-/no-load protected
- Overvoltage protection
- Overtemperature protection
- Type: DMAC1000
- Input Voltage: 230VAC
- Output Voltage: 0-270 VAC – 0-380 VDC
- Output Current: 1000VA



■ Deutronic ref 040945

Intelligent charging technology of lead acid and VRLA batteries

The charging process is steered automatically by the individual charging condition of the battery. Overcharging of the battery is thus impossible. At the end of bulk charge, the device changes to trickle charge. A fully loaded battery is ensured and signalled. The battery chargers are fully onboard power supply fit and can charge the battery without the necessity to disconnect it from onboard electricity. The built-in intelligence permits a fully automatic, independent reconnaissance and signalling (on a LCD display) of operator errors, like polarity reversal, short circuit, overload, battery under voltage and contact problems. Models are available in 45 watts, 450 watts, 1000 watts, and 1700 watts through 2300 watts. The equipment is suitable for charging of 6 V, 12 V, 24 V and 42 V lead acid and VRLA batteries.



■ Deutronic ref 040946

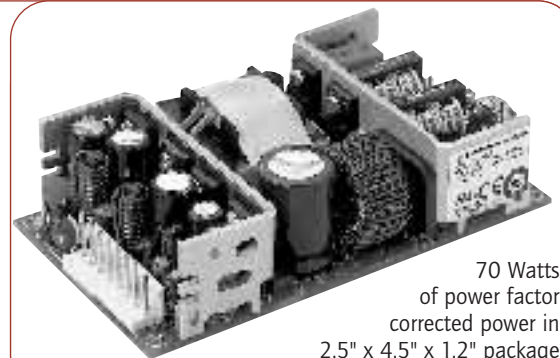
Lower profile advanced SMT design delivers up to 185 Watts In Low Profile 1U applications

RF-70 Series

Active PFC allows our new REL-70 series to meet harmonic current requirement EN 61000-1-2. 70 watts is available in a high efficiency 2.5"x 4.5"x 1.2" package. These 1 to 4 output supplies have both EN 60950 ITE certification and EN 60601-1-2 Medical certification.

Features

- High efficiency
- Universal 85-264 VAC input
- Harmonic current per EN 61000-3-2
- EMC Immunity compliance to EN 61000-6-2 - EN 60601-1-2
- EMC emissions compliance to EN 55011/22, Class B
- Safety certified to EN 60950 - EN 60601-1-2
- Optional chassis & covers

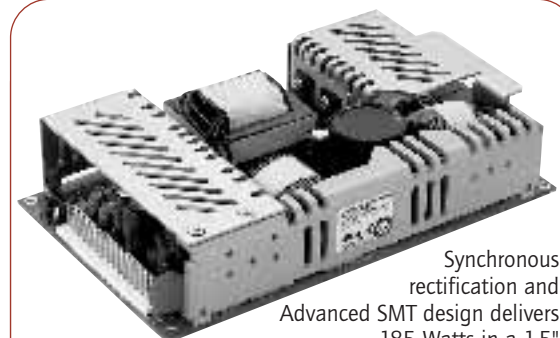


70 Watts of power factor corrected power in 2.5" x 4.5" x 1.2" package

■ IPD ref 040947

RF-185 Series

185 watts distributed between 1 to 4 outputs fits in 1U applications. This power factor corrected supply meets harmonic current standard EN 61000-1-2 and EN 60950 ITE certification and EN 60601-1-2 Medical certification on a 4.2"x 7"x 1.5" package. Available open frame or with optional chassis and cover.



Synchronous rectification and Advanced SMT design delivers 185 Watts in a 1.5" high low profile design

■ IPD ref 040948

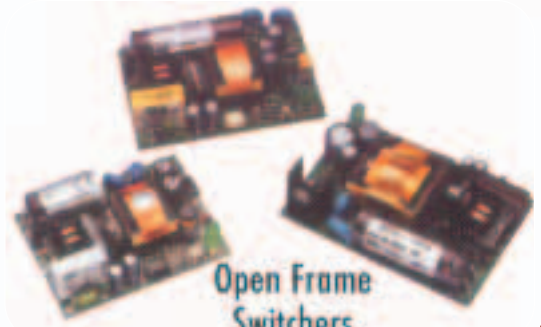
Power solutions with over 99.95% acceptance rate

What's most important to you is product reliability. Astrodyne achieves this low defect rate by placing all their power supplies through an automated burn-in testing system. Astrodyne is a Taiwanbased subsidiary of Astrodyne (US), responsible for high volume manufacturing, test support engineering, and sales support for switching power supplies and DC/DC product lines. As of September 1st Alcom became Astrodyne Benelux Sales Agent.

- AC/DC Switching Power Supplies (5W~320W available)
- DC/DC Converters (0.7W~15W available)
- Medically-approved products (5W~110W available)



Enclosed Switchers

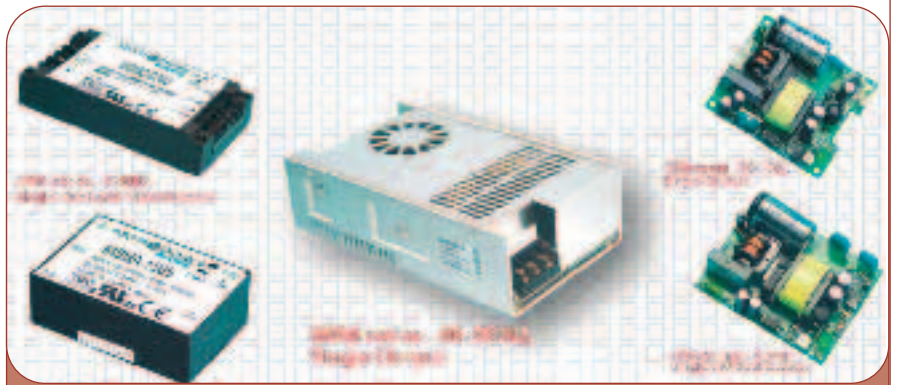


Open Frame Switchers

■ **ASTRODYNE** ref 040949

Medical series:

- MMC series, 5-30W single, dual and triple outputs
- MMA series, 5-30W single, dual and triple outputs
- MMK series, 40-300W single output
- ASM series, 10-15W single output
- OFM/M series, 5-15W single and dual output



■ **ASTRODYNE** ref 040950



AC/DC DIN rail mountable

- AC/DC DIN RAIL power supplies, 5W to 240W
- CE/TUV/UL508
- Industrial control equipment

■ **Chinfa** ref 040951



DC/AC inverters

- Offers true 25VA ~300VA 300VA continuous output models
- Safety approvals by CE/EMC, TUV/GS

■ **Chinfa** ref 040952

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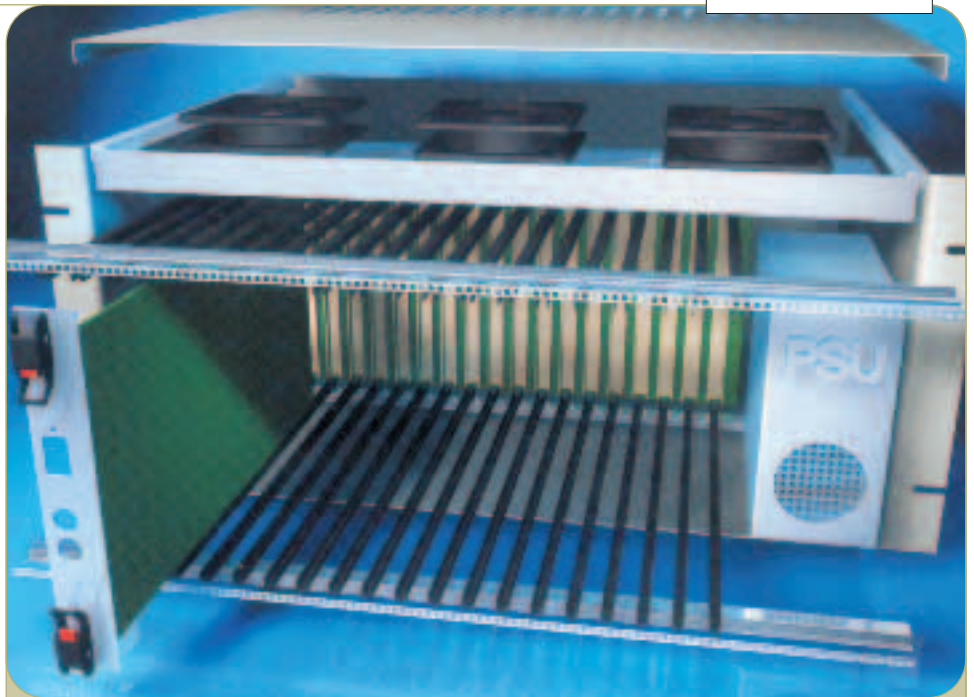
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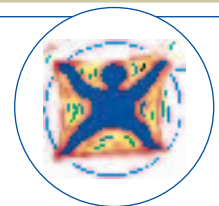
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