

TRANSFORMERS

INDUCTORS

DC-DC CONVERTERS

AC-DC POWER SUPPLIES



**Your *Trusted* Aerospace and Military
Magnetics & Power Supply Manufacturer**

About Pico

Our Story



Founded in 1967 by Mr. Joseph Sweeney and Mr. Henry Spoldi, Pico Electronics was established to improve and reduce the size of transformers and converters – which at the time were quite large. They began developing **miniature and ultra-miniature** units of high quality and reliability for **military specifications** and commercial air flight applications. With the new technologies that allow for surface mounting and other installation venues, The transformers were developed in accordance with MIL-T (now **MIL-PRF**) military specifications. As the technology advanced, so too did Pico Electronics by progressing from **flying lead** transformers, to through-hole configurations and axial leads, to gull lead and “J” lead surface mount models.

Pico Electronics has come to be known as “the” resource for ‘anything that flies’ using a miniature inductor or transformer. Additionally, Pico Electronics became the experts in miniature DC to DC power converters and miniature AC to DC power supplies. Over the years Pico established itself as a **leader in high voltage** DC to DC output (the high voltage outputs that meet today’s modern requirements of up to 10,000 volts DC).

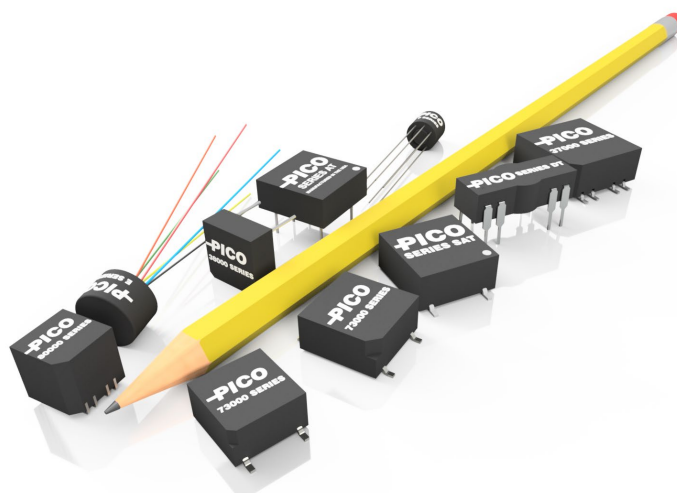
Today, Pico Electronics is constantly improving the **efficiency** of the power source and power factor correction, and is extending their high voltage product line.

PICO. The Big Name in Small Components

At Pico, we craft the industry’s **most compact** and **reliable** electronic components.

As experts in **miniature products** – transformers, inductors, DC to DC and AC to DC power supplies, we’re the top choice for power conversion.

From **cutting-edge** power systems to advanced aerospace applications, we deliver ultra-miniature inductors and transformers with **unmatched reliability**.



Product Portfolio



Transformers >

Discover Pico's innovative solution in transformer technology. Reliability and performance at miniature size for compact spaces. Product line in audio, power, DC-DC conversion, data-bus and current sensing.



Inductors >

Unchallenged in high current capability, diverse inductance values, wide frequency range & ultra-miniature in size — Pico inductor lines are offered in common mode chokes or power inductors.



DC-DC Converters >

Pico's DC-DC converter lineup features High Voltage, Extended Temperature, High Power, and Low Profile options.



AC-DC Power Supplies >

Our AC-DC Power Supplies offer versatile input and output options that ensure reliable power conversion for a wide range of applications including power factor correction, 400Hz or single / three phase inputs.



QPL Mil Spec >

Pico manufacture magnetic components that guarantee certified performance, from military to aerospace environments. These parts deliver outstanding serviceability to flight or mission critical applications.

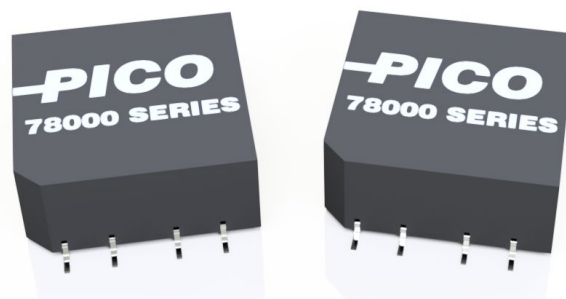


Transformers



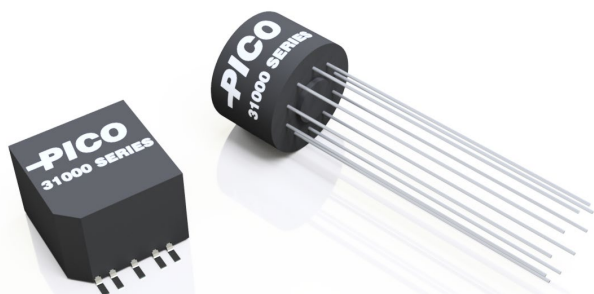
Audio Transformers >

- 20Hz to 250KHz (± 3 dB response) operating frequency range
- 15mW to 2W device power rating
- Wide range of impedance matching and turns ratio options
- Round package SMT, square package SMT, through hole plug-ins, and flexible insulated leads mounting types
- Size as small as 0.25" x 0.25"



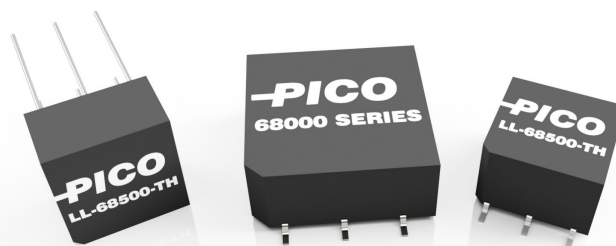
Low Profile Audio Transformers >

- 300Hz to 200KHz (± 3 dB response) operating frequency range
- 50mW to 400mW device power rating
- Low profile height at 0.24"
- Square package SMT - gull wing leads
- Size as small as 0.55" x 0.55"



DC-DC Converters Transformers >

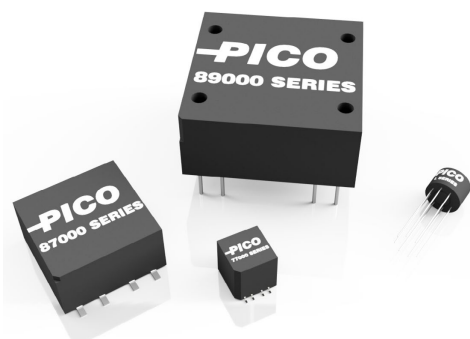
- Designed for switching power supplies with circuit topologies in bridge, dual bridge, and full wave rectification process
- Square wave switching frequency from 10kHz to 60kHz
- Up to 40W output power
- Input/output voltages from 5V to 300V
- Surface mount or plug-in mounting types
- Size as small as 0.41" x 0.41"



MIL-STD-1553 Data Bus Transformer >

- Ultra-low leakage inductance down to 2.7 μ H
- Common mode rejection ≥ 45 dB over 3K Ω impedance across 75KHz to 1MHz freq band
- Minimum rise and fall time as low as 50nS
- Droop % is down to 4.5%
- Surface mount and plug-in mounting types
- Multi-output windings with custom turns ratio change available
- Size as small as 0.4" x 0.4"

Transformers



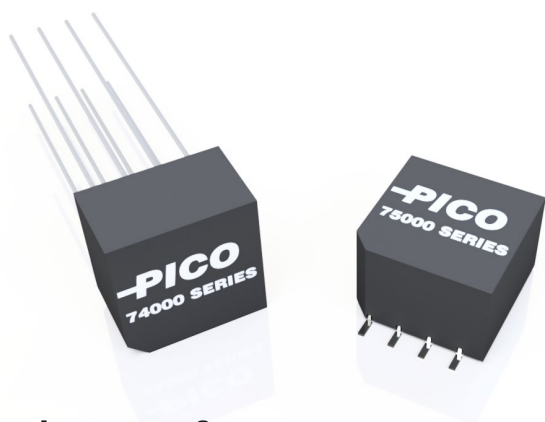
Power Transformers >

- 0.37W to 150W device power rating
- Input voltages at 115V or 26V
- Output voltages up to 300V
- Surface mount and through hole mounting types with optional mechanical inserts
- Custom modifications include voltage/power change, wider frequency, or low profile design
- Size as small as 0.55" x 0.55"



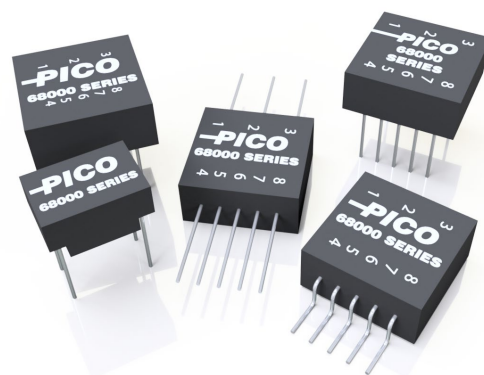
Current Sense Transformers >

- 5 to 20 Amps current rating
- Turns ratio $\leq 1:100$
- Designed for metering and load management
- Available in surface mount only
- Size as small as 0.38" x 0.38"



Pulse Transformers >

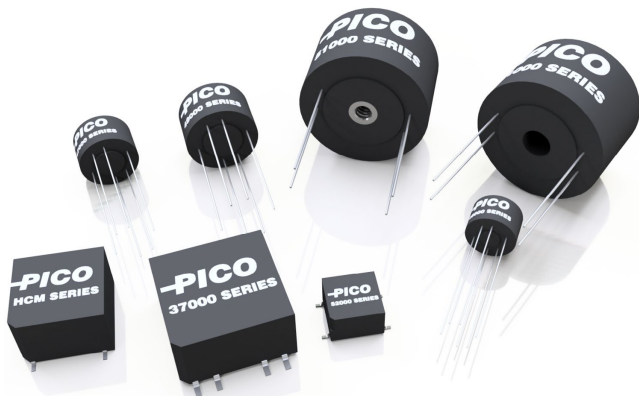
- ET Constant from 10 to 150V- μ s
- Minimum leakage inductance at 0.1 μ H
- Available in plug-in or surface mount
- Split secondary or output windings
- Turns ratio from 1:1:1 to 4:2:1
- Size as small as 0.45" x 0.45"



QPL MIL-PRF-21038/27 >

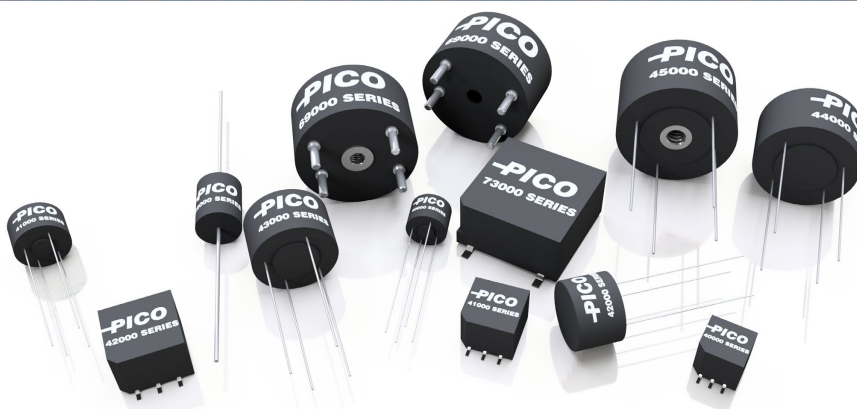
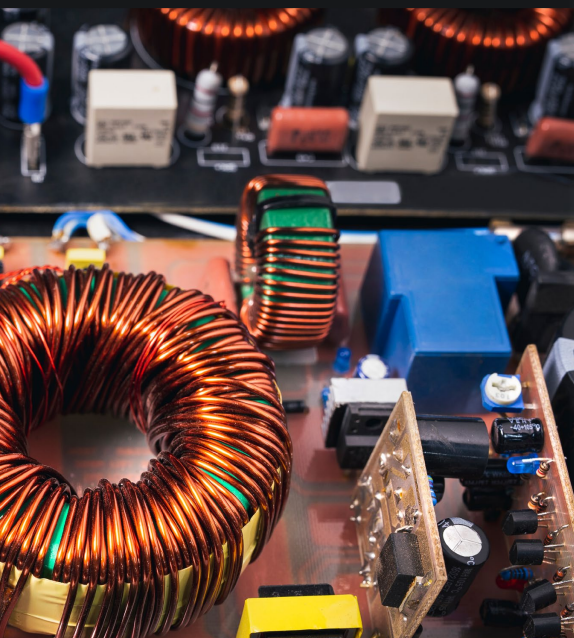
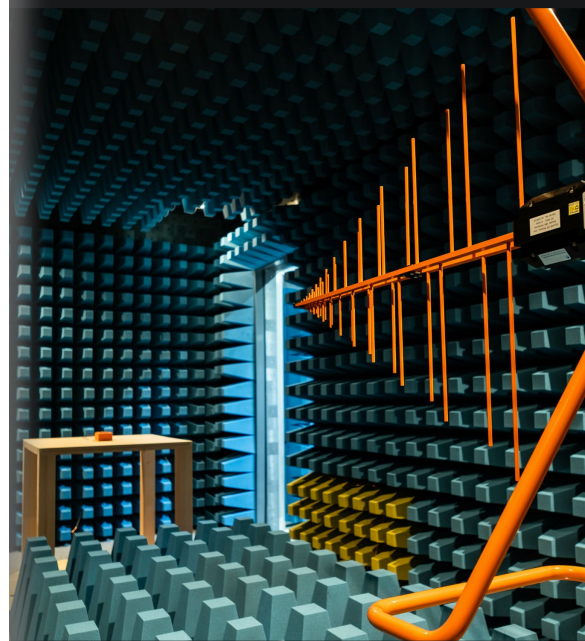
- Common mode rejection ≥ 45 dB over 3K Ω
- impedance across 75KHz to 1MHz freq band
- Maximum rise and fall time up to 250nS
- Maximum droop % is 20%
- Surface mount and plug-in mounting types
- Multi-output windings with custom turns ratio change available
- Size as small as 0.35" x 0.5"

Inductors



Common Mode Chokes >

- Capable of eliminating electromagnetic and noise interference generated by switching operations of power supplies through semiconductors (rectifiers, MOSFETs, etc.)
- Device RMS current rating: 0.01A to 30A
- Winding options are dual, or 3-phase windings
- Inductance per winding: 25 μ H to 20 mH
- Mounting in surface mount, or through-hole
- Size as small as 0.4" x 0.4" (L x W) to largest 1.13" x 1.13" SMTs



Power Inductors >

- Mounting in surface mount & through hole options—axial leads or plug-ins
- Device direct current rating: 0.01A to 28.4A
- Maximum inductance for single, or dual windings in series connection is 2 μ H to 20 mH
- Self-resonant frequency up to 24.7 MHz
- Size as small as 0.4" x 0.4" (L x W) to largest 2.15" plug-in diameter

Qualified Products List Military Specification



Pico products are listed on the [Qualified Products List \(QPL\)](#) and have met all applicable standards and qualification requirements established by the certifying organization. As a QPL approved manufacturer, we have undergone [rigorous testing](#), inspections, and audits to ensure our products adhere to specified requirements for quality, reliability, and performance. Our QPL status provides assurance that our products have demonstrated the necessary characteristics demanded by diverse applications and can be used without further documentation or testing. Pico caters to industries such as telecommunications, defense, and aerospace.

M21038/27 >

Data Bus Transformers

M27/76 >

Audio Transformers

M27/103 >

Audio Transformers

M27/103 >

Audio Transformers

M27/286 >

Axial Power Inductors

M27/287 >

Power Inductors

M27/288 >

Power Inductors

M27/289 >

Power Inductors

M27/356 >

Power Inductors

M27/357 >

Audio Transformers

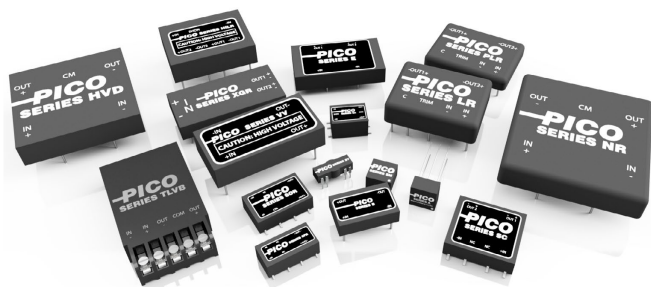
M27/358 >

Audio Transformers

M27/359 >

Audio Transformers

DC-DC Converters



Low Profile DC-DC Converters >

- 0.200" to 0.500" heights
- Output voltages 3.3V to 10kV
- 0.625W to 30W power
- Input/output isolation
- Regulated, programmable & adjustable outputs
- Surface mount, through hole or terminal strip packages



High Power DC-DC Converters >

- Output power up to 300W
- input voltage up to 1200V
- Up to 350V output models
- Industry standard brick sizes
- Conduction cooling with compatible heat sinks and thermal interfaces



Extended Temperature Industrial / Military DC-DC Converters >

- Temperature ranges as wide as -55°C to +95°C
- MIL screened/qualified components models
- For industrial or military applications



High Voltage DC-DC Converters >

- Output voltages up to 10,000V
- Power levels up to 300W
- Programmable & adjustable outputs
- Surface mount, through hole or terminal strip packages.

AC-DC Power Supplies



AC-DC Power Supplies >

- Universal 86 to 265 VAC input range
- 115 VAC or 220VAC nominal inputs
- 47 to 440Hz input frequency
- 3 to 55 Watts output power
- Through hole or terminal strip mounting
- Compatible heatsink to extend temperature range



AC-DC with Power Factor Correction Modules >

- Universal 86 to 265 VAC input range
- Single or three phase inputs
- 47 to 440Hz input frequency
- Up to 0.99 Power Factor
- Isolated outputs up to 300VDC
- Non-isolated 365V regulated output
- 250 to 2000W output power
- Standard full brick packages (4.6" x 2.5") or smaller

Manufacturing Standards

Pico Electronics is a qualified products vendor serving the military and aerospace industries, supporting **mission-critical applications** such as communications systems, aircraft, weapons/defense, naval electronics, and satellites. All products are manufactured to **stringent quality** and **reliability standards**, ensuring performance in **extreme environments**, including high temperature, humidity, and chemical exposure

Military standards include MIL-PRF-27/21038 for Low Power Pulse Transformers, MIL-PRF-27/289 for Power Inductors, MIL-STD-1553 for Data Bus Transformers, QPL for Audio Transformers, and select MIL-STD-883 environmental screening for DC-DC Converters and AC-DC Power Supplies.

DESIGNED TO MEET

Standard	Screening / Test	Description
MIL-STD-202	Vibration	Method 204, Vibration, High Frequency
	Shock	Method 213, Shock (Specified Pulse)
	Immersion	Method 104, Immersion
	Moisture Resistance	Method 106, Moisture Resistance
	Flammability	Method 111, Flammability (External Flame)
	Thermal Shock	Method 107, Thermal Shock
	Humidity	Method 106, Moisture Resistance
	Altitude	Method 105, Barometric Pressure (Reduced)

OPTIONAL SCREENING (TRANSFORMERS & INDUCTORS)

Standard	Screening / Test	Description
MIL-PRF-27	a.) Group A inspection Level-T - Table VII b.) Qualification inspection, Grade 5 - Table V	I. Thermal Shock II. Vibration
MIL-STD-981	a.) Group A screening tests - Table VI b.) Group B tests - Table XII, Class S	III. Burn-in IV. Induced Voltage V. Shock
EEE-INST-002, Section M1	a.) Magnetics Screening Req. - Table 2 b.) Magnetics Part Qual. - Table 3	VI. Dielectric Withstanding Voltage (at reduced pressure) VII. Insulation Resistance VIII. Electrical Characteristics IX. Visual and Mechanical Examination (External) X. Life XI. Radiographic Inspection

OPTIONAL SCREENING (DC-DC CONVERTERS & AC-DC POWER SUPPLIES)

Standard	Screening / Test	Description
MIL-STD-883	Stabilization Bake	Referenced Method 1008 Non-operating maximum storage temperature for 24 hours
	Temperature Cycle	Referenced Method 1010 Non-operating at temperature extremes, 15 mins/ temp, 10 cycles
	Burn-In	Referenced Method 1015 Max operating temperature for 160 hours

Quality & Compliance Standards

Pico Electronics is committed to the **highest standards of quality** and **compliance**, delivering products that meet rigorous industry certifications such as ISO 9001:2015. Every product undergoes **100% electrical testing** and visual inspection, with Certificates of Conformance provided for complete traceability and assurance. Pico's robust quality management system, strict supplier oversight, and adherence to military and aerospace standards ensure exceptional reliability, safety, and performance for mission-critical applications. Customers can trust Pico Electronics for consistent excellence, proactive risk management, and **responsive, customer-focused service**.



Certified to
AS9100D
ISO 9001:2015



Precisely Right.



Overseas Representatives

UNITED KINGDOM

SOLSTA
2 Ravensbank Business Park
Hedera Road
Redditch
B98 9EY, UK
Phone: +44 (0)1527 830800
Email: sales@solsta.co.uk
Website: www.solsta.co.uk

GERMANY/AUSTRIA/SWITZERLAND BENELUX/FRANCE/ SCANDINAVIAN COUNTRIES

ELCOS BV
Zagerijstraat 24
2240 Massenhoven
Belgium
Phone: +32 3 206 74 80
Email: info@elcos.be
Website: www.elcos.be

ITALY

ITS & MTA INTERNATIONAL
TRADING SRL
Via Luigi Pomini 9/Quater
21053 Castellanza -VA-
Phone: +39 0331 482092
Fax: +39 0331 504784

OMNIAELECTRONICS
Via Stefano Longanesi 25
00146 Roma - Italy
Phone: +39 06 5583804
Fax: +39 06 233229615
Email: mark@omniaelectronics.com
Website: www.omniaelectronics.com

SPAIN

OMNIAELECTRONICS
Calle Virgen de los Reyes, 5
28027 Madrid - Spain
Phone: +34 913671514
Fax: +34 911413599
Email: g.aprea@omniaelectronics.com
Website: www.omniaelectronics.com

LATVIA

SIA "BALTELEMENT"
10 Avotu Str., Office 1
Riga LV-1011 Latvia
Phone: +371 672 17028
Fax: +371 672 17028
Email: sale@baltelement.lv

ISRAEL

STG INTERNATIONAL LTD.
53 Derech Hashalom
Givatayim, 53454 Israel
Phone: 972 3 7331400
Fax: 972 3 5732244
Email: stg@stggroup.co.il
Website: www.stggroup.co.il

UKRAINE

TOV "BALTELEKTRON KOMPLEKT"
30 Simona Petlyuri Str, Office 409
Kiev 01032 Ukraine
Phone: +380 44 3922164
Fax: +380 44 3922164
Fax: +380 44 3922164
Email: sale@baltelektron.com.ua

KOREA

NICK INTERNATIONAL
1202-301 30 Pangyodaejang-ro 5-gil
Bundang-gu, Seongnam-si
Gyeonggi-do, Republic of Korea
Phone: 82 10 3235 2645
Email: Nak-Kyu Kim nakkyu12@naver.com

JAPAN

NACELLE CO., LTD
Assorti 2F, 1-19-16
Kamiitabashi, Itabashi-ku
Tokyo 174-0076 Japan
Phone: +81 3 5921 5099
Email: sales@nacelle.co.jp
Website: www.nacelle.co.jp

INDIA

KAYTRONICS
Hyderabad, India
Phone: 040 2784 8358
Email: sales@kayindia.com

KAYTRONICS
Bangalore, India
Phone: 080 2235 1372
Email: sales_bglr@kayindiacom

MESA MICROWAVE
New Delhi, India
Phone: +919452098010
Email: sales@mesamicrowave.com

MESA MICROWAVE - USA
2460 W. Ray Rd, Ste 2
Chandler, AZ 85224 USA
Phone: (480) 890-1612
Email: sales@mesamicrowave.com

CHINA

LEADWAY INDUSTRY LTD.
Rm 4 24/F HK Worsteds Mills Industrial Bldg.
No 31-39 WoTong Tsui ST Kwam Chung NT.HK.
Phone: +852 3050 1976
China Mobile: +86 136 326 33801
Email: sales@leadwaytk.hk
daisy@leadwaytk.hk

Room 702
West Building of ShengTang Mansion
No. 1 TaiRan 9 Road, CheGongMiao
Putian Dist., ShenZhen,
GuangDong China
Phone: 0755 83035177
Fax: 0755 83035176
Email: lily@leadwayic.com.cn

TAIWAN

AIDC
Aerospace Industrial Development Corp.
407803 No. 1, Hanxiang Road
Xitun District, Taichung City 40703 Taiwan
Phone: +886-4-27020001 Ext 3318
Email: Chiweihung@ms.aidc.com.tw
Website: www.aidc.com.tw

Headquarters

143 Sparks Avenue
Pelham, New York 10803
1 (800) 431-1064
info@picoelectronics.com
www.picoelectronics.com

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