optimized designs for a wide range of new applications & markets

Defence
- Specialty Connectors
- Custom Power Filters
- Ceramic Capacitors
- Magnetic

Communications
- Coaxial Filters & Interconnects
- Power Filters
- Custom Power Filters
- Magnetic

Avionics
- Specialty Connectors
- Custom Fibers & Interconnects
- Film Modules
- Ceramic Capacitors

Alternate Energy
- Film Modules
- Specialty Connectors
- Magnetic

Medical
- Custom Filters
- Ceramic Capacitors
- Power Filters
- Magnetic

Industrial
- Ceramic Connectors
- Custom Filters
- Film Modules
- Ceramic Capacitors & Interconnects
- Magnetic

About API Technologies
API Technologies Corp. is a trusted provider of RF/microwave, microelectronics, and security solutions for critical and high-reliability applications across a wide range of industries, including defense, commercial/industrial, and aerospace.

Innovative Solutions
API Technologies offers a wide range of solutions designed to meet the needs of customers in various industries. Our solutions include:

- **Electromagnetic Integrated Solutions**
  - Optimal designs for a wide range of new applications & markets
- **Power & System Solutions**
  - Sensors Solutions
  - RF Microstrip & Waveguide
  - Electromagnetic Integrated Solutions
  - Electronics Manufacturing Services
  - Secure Systems & Information Assurance

Contact Information
+1 605.241.1808
www.apitech.com
api@apitech.com

Electromagnetic Integrated Solutions
- Specialty Connectors
- Power Filters & Capacitors
- Magnetic

Design & Testing Support
Our design & testing support includes:

- **Most Complete EMI Line**
  - Ultra-low insertion loss, ultra-high attenuation, and ultra-wide bandwidth

- **Low Cost Manufacturing**
  - Affordable solutions for low-reliability applications

- **Low Cost Manufacturing**
  - Affordable solutions for high-reliability applications

- **MIL-Qualified Products**
  - MIL-PRF-15733, MIL-PRF-28861, and MIL-PRF-49470 filters

- **Design & Testing Support**
  - Ongoing support and assistance for our customers

- **Most Vendor Reduction Goals**
  - The benefit of API’s Spectrum Control product line enables customers to reduce the number of suppliers and lower overall costs.

- **Design & Testing Support**
  - Support for all aspects of the design & testing process

- **Certified**

- **Design & Testing Support**
  - Support for all aspects of the design & testing process
optimized designs for a wide range of new applications & markets

- Defense
  - Specialty Connectors
  - Military Custom Power Filters
  - Ceramic Capacitors
  - Magnetic
- Communications
  - Coaxial Interconnects
  - Power & System Solutions
  - Ceramic Capacitors
  - Power Filters & Capacitors
- Avionics
  - Specialty Connectors
  - Ceramic/Aluminum Power Filters
  - Inverters
  - Magnetic
- Industrial
  - Ceramic Capacitors
  - Custom/Electrolytic Power Filters
  - Film Filters
  - Magnetic
- Aerospace
  - Specialty Connectors
  - Ceramic Capacitors
  - Film Filters
  - Magnetic

About API Technologies
API Technologies Corp. is a leading provider of RF/microwave, microelectronics, and security solutions for critical and high-reliability applications. Formed in 1968, API Technologies is now a world leader in the electromagnetics and RF/microwave component industry. API Technologies is committed to being the world’s most efficient electromagnetics manufacturer. The company’s customers include Fortune 500 companies, as well as a majority of NATO governments. With over 50 years of experience in the electromagnetics industry, API Technologies continues to build on its leadership and reputation for high-quality, reliable products. The company offers a wide range of products, including transformers, inductors, glass and resin seal filters, SMF filters, advanced ceramics, and custom connectors. Its comprehensive line of products includes inductors, transformers, and other electromagnetics products for use in military, commercial, and industrial applications.

Innovative Solutions from Components to Complex Assemblies
API Technologies provides innovative solutions to meet the demands of today’s complex markets. The company’s Spectrum Control product line offers a comprehensive range of solutions to meet the needs of today’s most demanding applications. The Spectrum Control line includes a wide range of products, from simple components to complex assemblies. The company’s engineers and designers are dedicated to providing high-quality, reliable products that meet the needs of today’s customers.

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About API Technologies

API Technologies, Corp. has been the world’s leading provider of RF/microwave, microelectronics, and security solutions for critical and high-reliability applications for over 60 years. Whether modifying an existing component or working from a “clean sheet” approach, we’ll develop a solution to address the mechanical, electrical and/or power concerns of your next design. API Technologies’ Spectrum Control product line can help you reduce your sourcing base.

The breadth of Spectrum Control’s product line includes not only the industry’s most complete line of coaxial EM I components, but also an expanded offering of advanced ceramics, power film capacitors, filtered and unfiltered interconnects, and magnetics. A PI Technologies has been the world’s leading provider of custom application-specific EM I filter solutions since 1968. Whether modifying an existing component or working from a “clean sheet” approach, we’ll develop a solution to address the mechanical, electrical, and/or power concerns of your next design.

Alternate Energy
- Film Modules
- Specialty Ceramic
- Magnetic

Avionics
- Specialty Connectors
- Custom Fiber Flights & Interconnects
- Film Modules
- Custom Power Filters
- Magnetic

Communications
- Custom Interconnects
- Power Filters
- Surface Mount Filters
- Military Custom Power Filters
- Commercial Custom Power Filters
- Coaxial Filters & Interconnects
- Q PL’d Coaxial Filters
- Specialty Connectors

Industrial
- Ceramic Capacitors
- Power Filters
- Ceramic Capacitors & Interconnects
- Filtered Interconnects
- Adv. Ceramic

Powder & Systems Solutions
- Sensors Solutions
- AP Microwave & Microelectronics
- Electromagnetic Integrated Solutions
- Electronic Manufacturing Services
- Secure Systems & Information Assurance

+1 603.246.3808
www.apitech.com

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Alternate Energy
- Film Modules
- Specialty Ceramic
- Magnetic

Avionics
- Specialty Connectors
- Custom Fiber Flights & Interconnects
- Film Modules
- Custom Power Filters
- Magnetic

Communications
- Custom Interconnects
- Power Filters
- Surface Mount Filters
- Military Custom Power Filters
- Commercial Custom Power Filters
- Coaxial Filters & Interconnects
- Q PL’d Coaxial Filters
- Specialty Connectors

Industrial
- Ceramic Capacitors
- Power Filters
- Ceramic Capacitors & Interconnects
- Filtered Interconnects
- Adv. Ceramic
Electromagnetic Integrated Solutions

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Electromagnetic Integrated Solutions

**Applications**

**Features / Benefits**

- Perform **a**nce Characteristics

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**Electromagnetic Integrated Solutions**

**Tubular Capacitors**

- **Power Supplies**
  - the device against **theramo**l and low **ESR/ESL**
  - **high frequency applications**

**Components**

- **CERAMIC CAPACITORS**
  - Capacitance values up to 40 µF
  - Temperature stability and strength

**Superior filtering characteristics**

**H**igh **temperatures** construction

**Small size options**

**Solder-in Filters**

- **Up to 750 VDC**
- **Up to 30,000 pF**
  - in a shielded application

**Effective filtering from potential damage**

**Filtered** signal line between

**Shroud protects filter element**

**Outperform surface mount**

**Approved by CSA Std 22.2 No.**

**Reliability**

**Design flexibility**

**Cost-effective solutions**

**Current ratings (max.)**

---

**Coaxial Filters & Interconnectors**

**Temperature characteristics**

**Excellent filtering**

**Shroud protects filter element**

**Outperform surface mount**

**Design flexibility**

**Cost-effective solutions**

**Reliability**

**Current ratings (max.)**

---

**Connectors & Hardening**

**Metal case provides high performance**

**Designed to meet agency**

**Reliability**

**Design flexibility**

**Cost-effective solutions**

**Reliability**

**Current ratings (max.)**

---

**Power Filters & Film Modules**

**Line Filters**

- **Temperature range**
  - **-25°C to +85°C**

**Delta and Wye configurations**

**Effective filtering from**

**100 KH z**

**Manufacturing expertise**

**Interconnects**

**Wire processing range**

**-55°C to +200°C**

**Voltage ratings (max.)**

**Power**

- Systems, multi-circuit filter assemblies

**Supplies, electronic warfare,**

**avionics, satellites,**

**and peripherals, measuring instruments,**

**Personal computers, microcomputers—**

**D-subminiature connectors**

**UL 94V-0, UL/C SA recognized**

**Each connector position is tested**

**100% for critical parameters**

---

**Current**

- **3 G**

**Magnetics**

**Power Inductor-Chokes**

**Lighting Choke & Inductor Filters**

**Power Transformers**

**Laminated Power Transformers**

**Injection & Molding Transformers**

**Design solutions available**

---

**Specialty Components**

- **Advanced Ceramic Components**

**LED/Power Management**

- **4.7 µF max**

**High PCs & Modules**

**Reliability**

**Design flexibility**

**Cost-effective solutions**

**Reliability**

**Current ratings (max.)**

---

**Electronic Components**

- **3.5 A max**

**High Frequency Current Sensors**

- **3.5 A max** to 800 A max

**Continuous and 120 A intermittent**

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### Electromagnetic Integrated Solutions

#### CERAMIC CAPACITORS

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#### COAXIAL FILTERS & INTERCONNECTORS

- Three Terminal Chips, Power Supply & High Voltage
- Minitek & Solderable Filters
- Fritted Ceramic Filters
- Filered Terminal Blocks
- Low Cost Ceramic Filtered D-sub Connectors
- High Performance Filtered D-sub Connectors
- Film & Solid State Filters & MLT Filters
- High Current Feed Through Filters

#### CONNECTORS & HARDENING

- Custom Cable & Harnessing
- Power Entry Modules
- Power Line Filters & Low Pass Filters

#### POWER FILTERS & FILM MODULES

- Transformer Line Voltage to Any Other Transformer
- Filter Inductors, Toroidal Current Sense Transformers

#### MAGNETICS

- Power Inductor Chokes
- Lightning Choke & Inductor Filters
- Custom Inductor & Power Line Transformers
- Lucent Power Transformers
- Transformer Components

#### Current Ratings (Max)

- AC: 125 VA @ 400 Hz
- DC: Up to 20,000 VDC
- Switched/Filtered 2, 4, and 6 Amps
- Insertion loss range
- Voltage ratings (Max)

#### Construction

- Reliability
- Current ratings (Max)
- Voltage
- Temperature range
- Insertion loss range

#### Design Flexibility

- Interconnects
- Ground/Anthropometric Components
- Transformer Components

#### Performace

- Current ratings (Max)
- Voltage
- Temperature range
- Insertion loss range

#### Features / Benefits

- High Wear and Corrosion Resistance
- Temperature Stability and Strength
- Custom Solutions Available

#### Applications

- HF/RF Power Amplifiers, Computer
- High Frequency Applications
- Simple Structure and High Reliability

#### Capacitance Values

- Available in 0603, 0805, 1205, and 1608
- Construction
- Wide Range of Bushing Sizes, Lead Metric Spacing
- Qualification to MIL-C-11015 when specified

#### Current Ratings (Max)

- -40°C to +125°C
- To 220,000 pF
- Up to 250 Ams
- 0.35 mA to 3.0 mA max
- 20 kHz to 100 kHz Operating Frequency

#### Interconnects

- USB Connectors with Inductors
- Miniature & Mini-Din Receptacles
- Miniature Ribbon Connectors
- Modular Jack Connectors Filtered
- Filtered D-Sub Connector

#### Transformer Line Voltage to Any Other Transformer

- Precision Wound Heavy-Duty Toroidal Transformers
- Filter Inductors, Toroidal Current Sense Transformers

#### Transformer Components

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**Electromagnetic Integrated Solutions**

### Power Supplies
- **Features:**
  - Superior thermal shock resistance
  - Voltage ratings up to 1500 VDC
- **Benefits:**
  - Effective filtering from 50 to 200 Volt
- **Performance Characteristics:**
  - 2-10 Amps (Pi)
  - Up to 220,000 pF
  - Insertion loss range
- **Temperatures:**
  - -55°C to +125°C
  - -55ºC to +150ºC
- **Applications:**
  - Telecommunications, industrial
  - Medical electronics

### Transformers
- **Performance Characteristics:**
  - Leakage current
  - Voltage ratings
  - Current ratings (max.)
  - Insertion loss range
  - Insertion loss for EMI filtering of
  - DC: 150 KHz to 10 GHz
  - RF: 1 MHz to 18 GHz
  - Radar: 2 GHz to 40 GHz
  - Ultrasonic: 20 KHz to 1.5 MHz
- **Applications:**
  - Broadband transmission equipment,
  - Military, industrial, scientific,
  - Renewables energy conversion equipment;
  - Laser pulse power and
  - Display units

### Inductors/Chokes
- **Performance Characteristics:**
  - Inductance
  - Terminal
  - Leakage current
  - Isolation (1500 VDC)
  - Effective filtering from
  - Temperature range
  - Applications:
  - Telecom, industrial
  - Medical electronics

### Interconnects
- **Performance Characteristics:**
  - Terminal
  - Leakage current
  - Isolation (1500 VDC)
  - Effective filtering from
  - Temperature range
  - Applications:
  - Telecom, industrial
  - Medical electronics

### Admiralty and Films
- **Performance Characteristics:**
  - Insertion loss range
  - Applications:
  - Satellites, secure communications,
  - Telecommunications, cellular base

### Magentic Components
- **Performance Characteristics:**
  - Magnetic flux density
  - Permeability
  - Applications:
  - Solar power systems,
  - Military, industrial, scientific,
  - Medical equipment

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**Notes:**
- **Power Supplies**
  - BPP, BPX, BBR or BQ ceramic available
  - 50 to 200 Volt
  - Tape and reel and bulk packaging
- **Transformers**
  - 400Hz 115-230V (Military DR series)
  - Broad frequency response of 30Hz
- **Inductors/Chokes**
  - 10 to 1,000 watts with low power losses
- **Interconnects**
  - Designed to perform in industrial or military environments
- **Admiralty and Films**
  - Designed to meet agency approvals, some selected filters
- **Magnetic Components**
  - For specific applications

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