CTS Your Partner in Smart Solutions®



Unmanned Systems and Vehicles

Application Review

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Where can CTS products be found?













CTS Your Partner in Smart Solutions®

1 Flight Control and Processing

- Flight controller timing
- Processor clocks
- Sensor synchronization
- Navigation timing
- Radio reference clocks
- Payload timing systems

2 Communications and Telemetry

- Command-and-control links
- Telemetry communications
- SATCOM communications
- Video downlinks
- Beyond-line-of-sight (BLOS) connectivity

3 Navigation (GNSS/GPS/Inertial)

- GPS/GNSS reception
- Positioning
- Navigation
- Inertial Measurement Units (IMUs)

4 Anti-Drone / Counter-UAS Systems

- Counter-drone radar
- Drone detection
- Drone tracking systems

5 Power and Propulsion Systems

- Battery monitoring
- Battery management systems (BMS)
- Motor current monitoring
- ESC (Electronic Speed Controller) monitoring
- Power conversion systems

6 Thermal Management

- Battery temperature monitoring
- Motor temperature monitoring
- Processor temperature monitoring
- RF electronics temperature monitoring

7 Camera, Gimbal and Optical Payloads

- Camera stabilization
- Gimbal control
- Optical focusing
- Micro-positioning

8 Structural Health and Condition Monitoring

- Airframe health monitoring
- Motor vibration analysis
- Impact detection
- Predictive maintenance
- Flight testing instrumentation

9 Position Feedback and Motion Control

- Gimbal position feedback
- Payload positioning
- Fine motion control

10 Controller Electronics

- Flight direction control
- Yaw control
- Camera pan/tilt control
- User interface inputs
- Controller processor timing

Temperature Sensors

Our portfolio of temperature sensors encompasses all industry-standard design approaches including PTC and NTC thermistors, pure metal resistance temperature detectors (RTDs) and thermocouples.

TT-3 / TT-S NTC NTC epoxy-coated chip thermistor



Features and Benefits

- Wide operating range: -50°C to +150°C
- 0.1 kΩ-1000 kΩ resistance range
- Accuracy to ±0.1°C / ±0.2°C
- Fast-response, compact design
- Tight resistance and Beta tolerances
- Curve/point matching available
- Custom sizes, leads and probes
- Reliable, stable performance
- Ideal for space-constrained sensing

Application Areas

- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing

TT-5 NTC Microchip Thermistor



Features and Benefits

- -40°C to +125°C operation
- 0.5 kΩ-100 kΩ resistance range
- Accuracy to ±0.1°C / ±0.2°C
- Ultra-small, fast-response design
- Moisture-resistant construction
- Tight resistance and Beta tolerances
- Custom tube and lead configurations
- Ideal for compact electronics and battery monitoring

Application Areas

- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing

TT-6 NTC thin-film thermistor



Features and Benefits

- -40°C to +120°C operation
- 0.3 kΩ-3000 kΩ resistance range
- ±1% to ±5% tolerance options
- Ultra-thin 0.55 mm profile
- Fast thermal response
- Stable, reliable performance
- Wide resistance and Beta options
- Point-matched characteristics

Application Areas

- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing

TT-4 Custom Temperature Probe



Features and Benefits

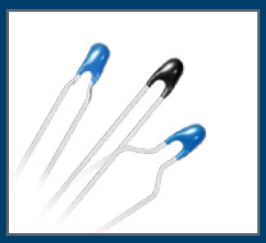
Custom NTC, PTC, Pt RTD and more

- -200°C to +600°C operating range
- NTC, PTC, Pt100 and Pt1000 options
- Multiple accuracy choices
- Custom housings and connectors
- Environmental sealing available
- High-voltage capable
- Flexible resistance and temperature ranges

Application Areas

- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing

TT-7 / TT-7CNTC lead-frame thermistor



Features and Benefits

- 1 kΩ to 100 kΩ resistance range
- ±1%, ±2%, ±3% and ±5% tolerances
- Low-cost solution
- Long-term stability
- Thermal shock resistant
- Standard resistance and Beta values
- Assembly-ready packaging
- TT-7C option with insulated epoxy-coated leads
- Ideal for high-volume applications

Application Areas

- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing



- Motor housings
- Embedded electronics
- ESCs
- Compact thermal monitoring
- Battery thermal protection
- Cooling systems
- Power electronics
- External environmental sensing

Position Sensors

CTS position sensors deliver precise, reliable motion feedback for unmanned systems. Available in rotary and linear configurations with contacting and non-contact Hall-effect technologies, CTS sensors help improve positioning accuracy, increase equipment uptime, reduce maintenance, and enhance overall system performance in demanding environments.

Hall-Effect Rotary Position Sensors



Features and Benefits
Series: 285/286

- Contactless Hall-effect technology
- 10M+ rotational life cycle
- High precision and repeatability
- Harsh environment resistant
- -40°C to +125°C operation
- Up to IP67 sealing
- Single/dual outputs
- Multi-turn up to 3600°
- Configurable options available

Application Areas

- Gimbal feedback
- Camera stabilization
- Payload positioning
- Actuator position monitoring
- Steering and throttle feedback

Joystick Encoder



Features and Benefits
Series: 293

- 3-in-1 joystick, encoder and pushbutton
- Single-hand operation
- 4-way joystick (500K cycles)
- Optical encoder (1M cycles)
- Integrated pushbutton (1M cycles)
- -40°C to +85°C operation
- RoHS compliant
- Multiple cable and termination options

Application Areas

- Drone controller interfaces
- Yaw adjustment
- Camera pan/tilt/zoom control
- Ground station controls
- Remote vehicle operation

Mechanical and Optical Encoders



Features and Benefits
Series: 288/290/291/292

- Precise position and speed feedback
- Incremental or absolute sensing
- Mechanical or optical detents
- Compact panel and PCB designs
- 4, 6, 8, 24 and 32 PPR options
- Optional pushbutton switch
- Multiple resolution options
- Custom cable, termination and voltage options

Application Areas

- Drone controller interfaces
- Yaw adjustment
- Camera pan/tilt/zoom control
- Ground station controls
- Remote vehicle operation

Industrial Rotary Potentiometers



Features and Benefits

Series: 450/09VR/11VR/12VR, 14VR/251/282/287

- Robust, sealed rotary sensing
- Long electrical and mechanical life
- Multiple resistance and torque options
- Flexible mounting and terminations
- Single, tandem, and concentric designs
- Optional power switch
- Optional panel seal
- Wide resistance range
- Low-noise output
- Insulated or metal shafts
- Sealed construction options
- Carbon, wirewound, conductive plastic and ceramic elements

Application Areas

- Flight controller user interfaces
- Ground control systems
- Throttle controls
- Manual adjustment and calibration controls

Linear Potentiometers



Features and Benefits

Series: 448

- Linear position sensing
- 10-60 mm travel range
- Up to 250 K cycle life
- Optional AC power switch
- Center detent available
- Single or dual element designs
- 500 Ω to 100 kΩ options
- Slim-profile construction
- RoHS compliant

Application Areas

- Throttle sliders
- Speed controls
- Zoom controls
- Payload controls
- Operator consoles
- Mission control stations

Trimmer Potentiometers



Features and Benefits

Series: 06TR/09TR/14TR

- Fine analog adjustment
- Compact PCB-mount designs Resistance values up to 5 MΩ
- Multiple terminal configurations
- Gull-wing, through-hole and J-bend options
- Various rotor, shaft and wheel options
- IP54 rated protection
- Flexible design configurations

Application Areas

- Flight controller calibration
- Power management calibration
- BMS threshold adjustment
- Analog signal conditioning
- Factory tuning and setup

Current Sensors and Modules

CTS designs AC and DC current sensors using advanced Hall-effect technology, providing precise current measurement for motor drives, robotics, power distribution, and energy management in industrial automation applications.

Busbar Mount Current Sensors



Features and Benefits

- Battery management systems (BMS)
- Propulsion and motor monitoring
- ESC monitoring
- Open-loop Hall-effect technology
- Current ranges up to 1500-2000 A
- ≤1% to 2.5% linearity error (depending on platform)
- Galvanically isolated measurement
- Custom calibration available
- Stand-alone or busbar-integrated packaging
- Automotive and industrial-grade designs

Application Areas

- Battery management systems (BMS)
- Propulsion and motor monitoring
- Power distribution units
- Inverters and motor control
- Charging systems

PCB Mount Current Sensors



Features and Benefits

- Battery management systems (BMS)
- Propulsion and motor monitoring
- ESC monitoring
- Power distribution units
- Inverters and motor control
- Charging systems
- Payload power monitoring
- Avionics and flight electronics monitoring

Application Areas

- Propulsion and motor monitoring
- ESC monitoring
- Inverters and motor control
- Charging systems
- Payload power monitoring
- Avionics and flight electronics monitoring

Clamp-On Current Sensors



Features and Benefits

- Non-intrusive current sensing
- Versions for 4 mm, 10 mm, and 26 mm conductors
- Current measurement up to 200 A
- Accuracy within ~1% with Melexis Hall ICbh solution
- Snap-fit installation
- Stray-field resistant magnetic concentrator design
- Direct PCB mounting capability

Application Areas

- Battery management systems (BMS)
- Propulsion and motor monitoring
- ESC monitoring
- Payload power monitoring
- Avionics and flight electronics monitoring

Battery Monitoring Systems



Features and Benefits

- Redundant Hall + shunt architecture
- Current measurement up to 2000 A
- Simultaneous current, voltage, and temperature measurement
- High-side and low-side monitoring capability
- Reinforced isolation between primary and secondary
- Dual-range measurement options
- CAN/digital communication capability

Application Areas

- Battery management systems (BMS)
- Charging systems
- Power distribution units

Custom Current Sensor Modules



Features and Benefits

- Custom sensing ranges: 0-2000 A+
- Single-phase or multi-phase designs
- Custom connectors and outputs
- Integrated busbar, shunt, magnetic core, and electronics solutions
- Application-specific package optimization
- Rapid prototyping and simulation support
- Custom current ranges and calibration

Application Areas

- Battery management systems (BMS)
- Propulsion and motor monitoring
- ESC monitoring
- Power distribution units
- Inverters and motor control
- Charging systems
- Payload power monitoring
- Avionics and flight electronics monitoring

Contact CTS for custom designs

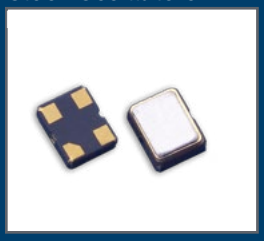


- Battery management systems (BMS)
- Propulsion and motor monitoring
- Power distribution units
- Inverters and motor control
- Charging systems
- ESC monitoring
- Payload power monitoring
- Avionics and flight electronics monitoring

Frequency Control Products

CTS delivers rugged XO, VCXO, TCXO, and OCXO timing solutions engineered for industrial automation, providing the low-jitter, high-stability performance needed for PLCs, robotics, CNC machines, drive controllers, and real-time networks in demanding environments.

Clock Oscillators



Features and Benefits

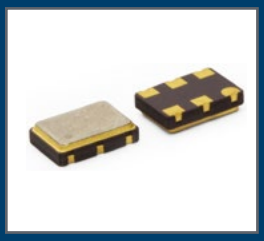
Models: 616/620/625/632/CHT/CA Series

- 1-250 MHz frequency range
- Ultra-small packages to 1.6 × 1.2 mm
- Precision analog tuning
- Compact PCB-mount options
- Resistance values up to 5 MΩ
- Multiple terminal styles

Application Areas

- Main processor clock
- Flight control loop timing
- Sensor sampling synchronization
- PWM generation for motor control
- Real-time operating system timing

Differential Clock Oscillators LVDS/LVEPECL/HCSL



Features and Benefits

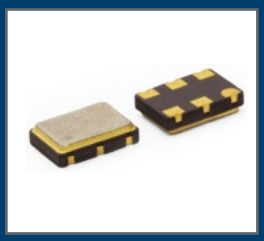
Models: 626/633/653/655/637/638, 642H/643H/645H/647H, CC Series

- 13.5-200 MHz operation (up to 2.1 GHz with PLL)
- Compact 2.5 × 2.0 mm package
- Ultra-low jitter down to 100 fs
- Native differential outputs
- Sub-picosecond clock performance
- Frequency stability to ±25 ppm

Application Areas

- Main processor clock
- Flight control loop timing
- Sensor sampling synchronization
- PWM generation for motor control
- Real-time operating system timing

VCXO HCMOS/LVDS/LVEPECL



Features and Benefits

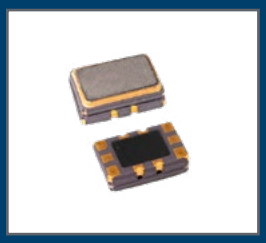
Models: 353/357, 315/317, 345/347, 375/377, CV Series

- 1-250 MHz operation (up to 2.1 GHz with PLL)
- Compact 5.0 × 3.2 mm package
- High-frequency fundamental design
- Ultra-low jitter down to 50 fs
- HCMOS, LVDS and LVPECL outputs

Application Areas

- Main processor clock
- Flight control loop timing
- Sensor sampling synchronization
- PWM generation for motor control
- Real-time operating system timing
- GPS timing
- GNSS signal processing
- Position calculations
- Navigation synchronization

TCXO, VCTCXO CLIPPED SINE/HCMOS



Features and Benefits

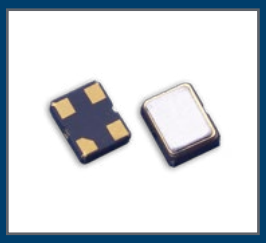
Models: 516/517, 520/521, 525/526, 531/532, 535/536, 580/581

- 5-52 MHz frequency range
- Compact 2.0 × 1.6 mm package
- High-precision compensation engine
- Stratum 3 performance
- Stability to ±0.1 ppm
- Optional voltage control
- -40°C to +105°C operation
- Extended temperature range

Application Areas

- Main processor clock
- Flight control loop timing
- Sensor sampling synchronization
- PWM generation for motor control
- Real-time operating system timing
- GPS timing
- GNSS signal processing
- Position calculations
- Navigation synchronization

Real-Time Clock TCXO



Features and Benefits

Models: TC20/TC25/TC32, TCLP25/ TCLP32, TT32

- Frequency: 32.768 kHz
- Package: 2.0 x 1.6 mm
- Low-power real-time clock reference
- Stability down to ±5 ppm for TT32
- Ultra-low power, 3.7 µA max
- Optimized for low phase noise and jitter with a fundamental crystal

Application Areas

- Frequency generation
- Frequency synthesis
- PLL references
- Channel stability
- Data-link timing

OCXO SINE/HCMOS



Features and Benefits

Models: 353/357, 315/317, 345/347, 375/377, CV Series

- 1-250 MHz operation (up to 2.1 GHz with PLL)
- Compact 5.0 × 3.2 mm package
- Ultra-low phase noise (-170 dBc/Hz)
- Stratum 3E performance
- Stability down to ±0.2 ppb
- Low G-sensitivity (0.3 ppb/G)

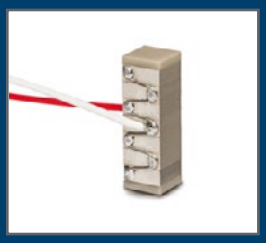
Application Areas

- Main processor clock
- Flight control loop timing
- Sensor sampling synchronization
- PWM generation for motor control
- Real-time operating system timing

Piezoelectric Components and Devices

Piezoelectric components and transducers find applications within sensing, actuation and send/receive applications supporting unmanned vehicles.

Multilayer Actuators



Features and Benefits

- Stack and bender actuators
- High-temperature stacks
- Preloaded stacks
- Multilayer products
- Low operating voltage
- High force generation
- High stiffness for short response time
- Precise motion

Application Areas

- Payload stabilization
- Active vibration damping
- Laser systems
- Fine adjustment
- Ultrafast steering

Bulk Components



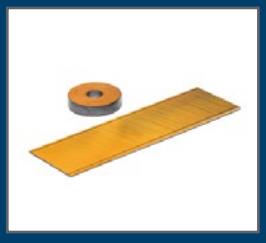
Features and Benefits

- Discs, rings and rods
- Plates, wafers, bars and wedges
- Tubes and cylinders
- Wide material portfolio
- High-quality product
- Highly customizable
- Lead-free and high-temperature options

Application Areas

- Sonar
- Collision avoidance
- Acoustic communications
- Inertial navigation, accelerometer, gyrometer
- Shock/vibration sensors
- Laser-based inertial references

Single Crystal Components



Features and Benefits

- Contacting and Hall-Effect options
- PPAP-qualified designs
- Dual-sensor configurations
- EV, hybrid and gasoline compatible
- Resistant to fluids, debris and EMI
- High piezoelectric coefficients
- Plates, discs and rings
- PMN-PT and PIN-PMN-PT High-power formulations
- Increased bandwidth
- Exclusive vibration modes
- Compact design

Application Areas

- High sensitivity hydrophones, towed arrays
- Countermeasures

Custom Assemblies



Features and Benefits

- Wired components
- Stacks and preloaded assemblies
- Potted and encapsulated transducers
- Custom designs
- Simplified supply chain and integration
- Controlled performance

Application Areas

- Sonar projectors
- Langevin transducers
- Receiver arrays
- Hydrophones
- Segmented tubes and sectors
- Doppler velocity logs
- Accelerometer sub-assemblies



- Sonar
- Collision avoidance
- Acoustic communications
- Navigation systems
- Shock/vibration sensors
- Optics focusing
- Fine adjustment
- Active vibration damping

Switches

CTS DIP switches provide low-cost means of manual circuit and hardware configuration on server boards, networking equipment, and control modules. Available in piano, slide, and rotary actuation styles across through-hole and surface-mount packages

DIP Switches



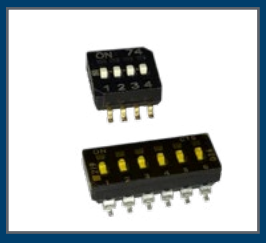
Features and Benefits
Series: 193/194/204/206/208

- Up to 12 positions and mounting options
- Multiple actuator styles and configurations
- Gold or tin-plated contacts
- Enhanced ESD protection
- Through-hole or surface-mount options
- Optional top tape seal
- Low, medium, or extended actuator heights

Application Areas

- Flight controller configuration
- Radio module configuration
- Payload setup
- System addressing
- Factory calibration
- Maintenance and diagnostic functions

Half-pitch and standard SMD miniature DIP switches



Features and Benefits
Series: 218/219

- Compact half-pitch design
- SPST, SPDT, DPST and 3PST options
- Gold or tin-plated contacts
- Gull-wing or J-bend terminals
- Enhanced ESD protection
- Board-wash compatible
- Surface-mount design

Application Areas

- Flight controller configuration
- Radio module configuration
- Payload setup
- System addressing
- Factory calibration
- Maintenance and diagnostic functions

Rotary DIP switches



Features and Benefits
Series: 220/221

- Compact 7×7mm or 10×10mm design
- Up to 16-position selection
- Simple rotary actuation
- Low-profile PCB mounting
- Through-hole or SMT options
- BCD or Hex output
- IP67 sealed, wash-safe
- Clockwise or counterclockwise rotation

Application Areas

- Flight controller configuration
- Radio module configuration
- Payload setup
- System addressing
- Factory calibration
- Maintenance and diagnostic functions

Pushbutton Switches



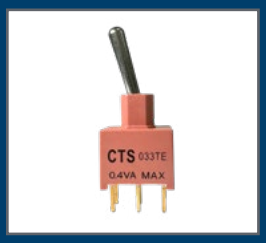
Features and Benefits
Series: 229

- Fully mechanical switch action
- Optional IP67 sealing against dust and moisture
- Configurable actuation force
- SPST/DPST circuit options
- SMT versions for direct PCB reflow
- Long mechanical life (1M+ cycles)

Application Areas

- Flight commands
- Mission controls
- Camera controls
- Payload activation
- Power control
- Arming functions
- Reset and maintenance controls

Toggle Switches



Features and Benefits
Series: 033TE/033TB

- IP67 sealed construction
- Long mechanical life
- Through-hole terminals
- Custom actuator options
- Compatible with wave and manual soldering
- Oxidation-resistant contacts
- Premium tactile feel
- UL and cUL certified
- Lead-free and RoHS compliant

Application Areas

- Battery charger control
- Test equipment control
- RF test station enabling
- Payload test systems
- Arm/disarm systems
- Power enable functions
- Maintenance controls

Rotary Selector Switches



Features and Benefits
Series: 212/227

- 2-12 position options
- Durable rotary contacts
- 30° indexing
- Panel-mount design
- Hill and valley detent
- Solder lug or PCB terminals
- Custom switching patterns available

Application Areas

- Flight mode selection
- Mission profile selection
- Communications routing
- Payload control
- Sensor selection
- Camera mode selection
- Imaging mode selection

Tactile Switches



Features and Benefits
Series: 222/223/225/228

- Crisp, repeatable tactile feedback
- Multiple actuation forces, pad layout, package sizes and heights options
- IP67 seal on select products
- Life cycles up to 5 million actuations
- Through hole or compact SMT footprints for dense HMI layouts

Application Areas

- Menu navigation
- Camera shutter
- Video start/stop
- Return-to-home
- Waypoint confirmation
- Flight mode confirmation
- UI navigation buttons

Micro Switches



Features and Benefits
Series: 230MB/230MA/230MC

- High-force, sensitive snap-action switching
- Compact size
- Durable contacts rated for frequent cycling
- IP67 seal on select products

Application Areas

- Landing systems
- Battery systems
- Payload systems
- Gimbal mechanisms
- Docking and charging equipment
- Maintenance and safety interlocks

RF Filters

Enable reliable communications, navigation, and sensing. CTS RF filters improve signal integrity by rejecting interference and unwanted frequencies in GPS/GNSS, telemetry, SATCOM, radar, and wireless communication systems.

Low-Pass Filters



Features and Benefits

- Microstrip technology
- Small size, low insertion loss
- Universal footprint

Application Areas

- Harmonic suppression
- Radar
- Communications

Duplexers and Diplexers



Features and Benefits

- Ceramic monoblock technology
- Small size, low insertion loss
- 0.6 to 6 GHz frequency range

Application Areas

- GNSS filtering
- Ground control
- Data communications

Band-Pass Filters



Features and Benefits

- Ceramic monoblock technology
- Ceramic waveguide technology for 12 to 40 ghz applications
- Small size, low insertion loss
- 0.3 to 40 ghz frequency range

Application Areas

- GNSS filtering
- Radar
- Data communications



- Radar
- GNSS filtering
- Ground control
- Communications
- Data communications
- Harmonic suppression

EMC Filters

Protect sensitive electronics from electrical noise. CTS EMC filters suppress conducted and radiated EMI generated by motors, ESCs, power converters, and high-current systems to improve reliability and performance.

Surface Mount Filters



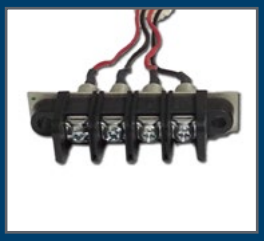
Features and Benefits

- Pi and C Filters
- Small size, low insertion loss
- Excellent suppression from 10 MHz to 10 GHz

Application Areas

- High-current power systems
- Battery management
- Power conversion circuits
- Compact UAV electronics
- External interfaces
- Power-entry points
- Communications connectors

Filter Terminal Blocks



Features and Benefits

- Pi Filters
- Filters integrated into a variety of connectors to aid in EMI reduction
- Customization available for volume applications

Application Areas

- High-current power systems
- Battery management
- Power conversion circuits
- Compact UAV electronics
- External interfaces
- Power-entry points
- Communications connectors

Feedthrough/Bushing Filters



Features and Benefits

- Available in Pi, L, and C configurations Threaded bushing feedthrough
- Up to 25A of current and 70 dB rejection from 100 MHz to 1 GHz

Application Areas

- High-current power systems
- Battery management
- Power conversion circuits
- Compact UAV electronics
- External interfaces
- Power-entry points
- Communications connectors

Filter Assemblies



Features and Benefits

- Ease of installation
- Cost effective solution
- Typically more effective for <50 than SMT solutions

Application Areas

- High-current power systems
- Battery management
- Power conversion circuits
- Compact UAV electronics
- External interfaces
- Power-entry points
- Communications connectors

Components by Engineering Need

Use this quick sourcing matrix to identify the CTS product family that fits your drone system design requirement and the specifications to review first.

Engineering Need	Recommended CTS Product	Common Drone / UAS Use	Key Specs to Evaluate
Precision	Frequency Control Products / Oscillators	Flight controllers, processor clocks, sensor synchronization, navigation timing, radio reference clocks, payload timing	Frequency, stability, phase noise/jitter, temperature range, package size
Power and propulsion monitoring	Current Sensors and Modules	Battery management systems, propulsion/motor monitoring, ESC monitoring, power distribution, inverters, payload power	Current range, isolation, accuracy/linearity, response, temperature range
Thermal management	Temperature Sensors / NTC Thermistors / RTDs	Batteries, motors, ESCs, processors, RF electronics, power electronics	Temperature range, accuracy, response time, size, environmental protection
Position and payload	Hall-Effect Position Sensors, Series 285/286	Gimbal feedback, camera stabilization, payload positioning, actuator position, steering/throttle feedback	Accuracy, rotational range, output, sealing, operating temperature
Hardware configuration	CTS DIP Switches	Server boards, networking hardware, control modules, and configuration settings	Positions, pitch, actuation style, lifecycle
Ground and remote	Joystick Encoders, Series 293 and Encoders	Drone controller interfaces, yaw control, camera pan/tilt/zoom, ground stations	Resolution, lifecycle, interface, environmental rating
Vibration	Piezoelectric Components and Devices	Structural health monitoring, motor vibration, impact detection, flight-test instrumentation	Sensitivity, frequency range, size/weight, operating environment
Communications	RF Filters / EMC Products	Command-and-control links, telemetry, SATCOM, video downlinks, navigation and RF payloads	Frequency/band, insertion loss, rejection, power handling, package size
Precision payload motion	Piezoelectric Actuators / Components	Camera stabilization, optical focusing, fine positioning and payload control	Displacement, force, response, voltage, size/weight



Why Choose CTS for Unmanned System Solutions?

Component Expertise
Proven experience in sensing, frequency control, and passive components.

Customization
Application-specific component solutions for specialized requirements.

OEM Trust
Trusted by leading organizations in robotics, drones, and defense markets.

Production Ready
Solutions engineered for reliability, density, and performance.

Your Partner in Smart Solutions®

CTS is a leading designer and manufacturer of products that Sense, Connect, and Move. We manufacture sensors, actuators, and electronic components in North America, Europe, and Asia, and provide solutions to OEMs in the aerospace and defense, medical, industrial, communications, information technology, and transportation industries.

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