



# Medical Applications

Medical Equipment



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Some medical devices are more mission-critical than others. That doesn't mean reliability is any less vital in the machines that don't monitor vital signs.

Whether the device is life-saving or more focused on providing comfort during treatment, these medical devices must be able to withstand whatever demands the day (or night) holds, including exposure to moisture and constant abuse. Our comprehensive portfolio helps ensure that no matter the environment, nurses, doctors and operators have the reliable and accurate visual communication in place to deliver safer operation.

From capacitive touch sensor display technology to thin seven-segment displays and LEDs in a range of single and bi-color options, VCC is enabling more intelligent medical device design for any application.

These products are designed to maintain comfort during treatment and even help save lives, in the case of heated blankets post-surgery. But they're also designed to save manufacturers when it comes to production time and costs. VCC excels in providing customers the custom and in-stock solutions that enhance designs and exceed expectations.

## Applications

- Hospital beds
- Hospital bed accessories
- Medical laser equipment
- Dental laser equipment
- Blanket warmers
- Warming cabinets



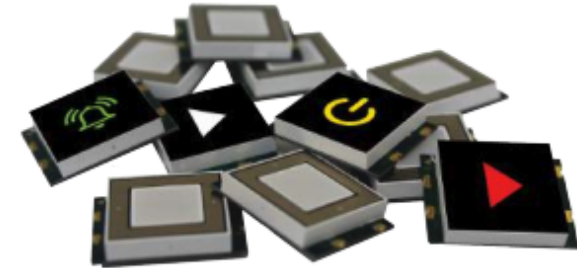
## CTH Series



### Capacitive Touch Sensor Display

- Through hole touch sensor LED display
- Capacitive touch sensor display technology
- Intuitive interface for users and simplifies customers interactions
- Robust design due to no mechanical moving parts
- Offers cost savings by eliminating the need for a traditional switch
- Color: super red, white, pure green, blue or yellow
- Available in one standard size: 15.0mm x 15.0mm x 11.0mm
- Uniform illumination and high optical clarity due to LED technology
- Optional overlay (icons): on/off, arrow, alarm
- Custom overlay icon can be manufactured upon request – contact VCC
- RoHS compliant

## CSM Series



### Capacitive Touch Sensor Display

- SMD touch sensor LED display
- Integrated touch sensing and illuminated display technology
- Robust design due to no mechanical moving parts
- Simplifies devices design and manufacturing
- Mounting type: surface mount or reverse mounting
- Color: super red, white, pure green, blue or yellow
- Touch sensor: integrated circuit (IC)
- Available in one standard size: 15.0mm x 15.0mm x 3.2mm
- Uniform illumination and high optical clarity due to LED technology
- Optional overlay (icons): on/off, arrow, alarm
- Custom overlay icon can be manufactured upon request – contact VCC
- RoHS compliant

## PML50 Series



### IP67 Panel Mount Indicator

- IP67 ruggedized LED indicator
- Unique optical low profile lens
- Ø0.69" (17.5mm) mounting hole
- Flex volt technology: 5V to 28V
- Wire leads
- LED long life
- Direct sunlight visibility
- Colors: red, green, yellow, blue, white
- Bi-color: red/green
- IP67 rated
- Vibration resistant
- RoHS compliant

## PCL22 Series



### IP65 LED Pilot Light

- Advanced light diffusion technology
- LED pilot light
- Ø0.88" (22mm) mounting hole
- Voltage: 12VDC, 24VDC
- Diffused translucent lens
- Direct sunlight visibility
- Single color: red, green, yellow, blue, white
- Bi-color: red/green
- IP65 rated
- Vibration resistant
- RoHS compliant



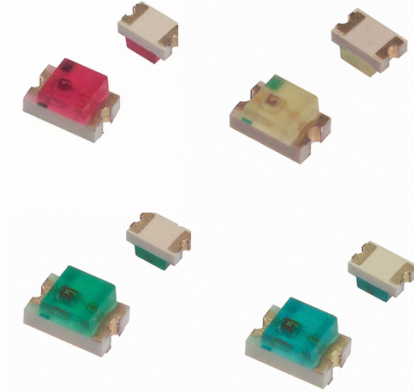
## 1092 Series



### Panel Mount Indicator

- High intensity LED indicator
- Ø0.50" (12.7mm) mounting hole
- Voltage: 12VDC, 28VDC, 120VAC
- Wire leads, quick connect tab terminals
- LED long life
- Direct sunlight visibility
- Colors: red, green, amber, blue
- Four different lens options
- Snap-fit
- "D" mounting hole prevent any rotation
- Optional O-ring for improved sealability
- RoHS compliant

## CMD17 Series



### Surface Mount LEDs

- Surface mount technology
- Tape and reel packaged for high-speed auto insertion
- Convection and vapor-phase reflow compatible
- Compact form enables high density placement
- Packaged 4000 pieces per reel|
- Lead Finish (Plating): Au
- Under Plating Material: NiCu
- Leading edge LED optoelectronic performance
- Consistent high brightness
- Exceptional Reliability
- Stringent process controls assure quality
- Extensive qualification testing to meet strictest requirements
- Designed to permit easy post-reflow solder joint inspection
- MSL Rating 2
- For custom LED color contact VCC
- RoHS and REACH Compliant

## HMS\_462 Series



### Watertight LED Panel Lens

- Round watertight fresnel lens
- Designed for outdoor environments
- Threaded lens enable quick installation
- Ø0.56" (14.27mm) mounting hole
- Lock washer enable quick installation
- Colors: red, amber, green, blue, yellow, clear
- Lens-polycarbonate UL 94-V2
- Resistant to shock and vibration
- Moisture sealed
- RoHS compliant



VCC is a recognized global leader for illuminated electronic components including aerospace, food service, people movers, transportation, medical, telecom and industrial markets.

Providing custom and standard solutions with superior design engineering expertise, excellent customer service and the broadest product line in the industry VCC proudly exceed user experiences.

From simple to more complex human machine interface systems, VCC excels at designing, testing and manufacturing custom light indication solutions, in less time and on budget.

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