

Our Clients



Certifications/Approvals



Karnataka Hybrid Micro Devices Ltd.
Plot 103, 4th Cross Rd, Electronics City Phase 1,
Electronic City, Bengaluru, Karnataka 560100

Contact Us

info@khmdl.com || www.khmdl.com
+91-80-28520208 || +91-80-28521456
Mobile: +91 9480696635

**KARNATAKA HYBRID
MICRO DEVICES LTD.**

AUTOMOTIVE

VOLTAGE REGULATOR

12 V, tolerance $\pm 0.2V$

24 V, tolerance $\pm 0.2V$

CURRENT
35 AMPS to 125 AMPS

Cut In Speed: 1200 to 1400 (configurable)

Speed Regulation: 2000 RPM to 6000 RPM

Load Regulation: 10% to 95%

Temperature Coefficient: 10 mV/°C

SAFETY

Overcurrent Protection

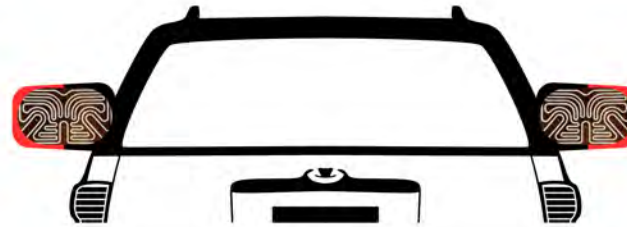
Load Dump Protection

Thermal Shutdown Threshold



PRINTED DEFOGGER HEATERS

DEFOGGER MIRRORS



Heating Temperature: 45 C

Supply Voltage: 24V

Power: Up to 16W

Defrost Time: 2-4 Minutes
(In Ambient Conditions)



WINDSHIELD WIPER CONTROLLER

PCB Dimension: 34 mm x 58 mm x 15.50 mm
[Customizable as per OEM specification]

Intermediate Single Speed Controller for Rear Window Wiper

Operating Voltage: 12 \pm 0.5VDC

No of Wiping/Minute: 45 Wipes
[Customizable as per OEM specification]

Motor Current rating [Max]: 20Amps

Operating temperature: -40°C to +85°C



FMVSS 118 STANDARD

Dimension: 75 mm x 36 mm x 20 mm
[Customizable as per OEM specification]

Pinch force: < 50 N Protection area [4 - 200] mm from the top frame

Obstacle sensing: < 50 msec

Electrical Characteristics

Operating Voltage Range: 10 V to 15 V

Idle Current: < 0.5 mA

Operating Mode Current [No Load]: < 7 mA

Motor Current rating [Max]: 20Amps

TFR

Thick Film Resistor
Fuel Sensor



Resistance
0 to 280Ω

Resistance Tolerance: < 0.5%, laser trimmed
Number of Resistors: 10 to 33

Substrate thickness: 0.635mm, 0.800mm and 1.000mm
Line width: 8 mil (0.2mm) min
Line Spacing: 8 mil (0.2mm) min

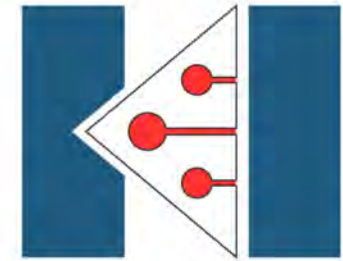
Substrate used: 96% Alumina

Life Cycle Test:
Dry Run Test: > 5,00,000 Cycles
Wet Run Test: > 20,00,000 Cycles

Fluid compatibility: Petrol/ Diesel

AUTOMOTIVE/MIL STD 883 G





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**KARNATAKA HYBRID
MICRO DEVICES LTD.**

AEROSPACE AND DEFENCE

PRINTED ELECTRONICS
HYBRID CIRCUITS
CERAMIC PCBs
THICK FILM CIRCUIT

HMC

MULTICHIP MODULE
PRINTED ELECTRONICS
HYBRID CIRCUITS
THICK FILM CIRCUIT

Thick Film Technology

Hermetically Sealed/Encapsulated

Ceramic/Metal Package

Sensors

Resistor Capacitor Network

OUR CAPABILITIES

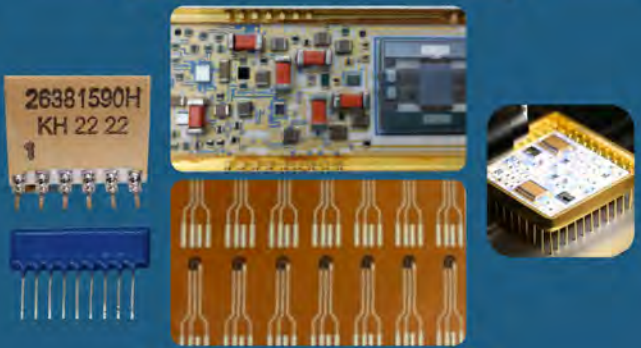
Laser Trimming

Wire Bonding

Hermetic Sealing

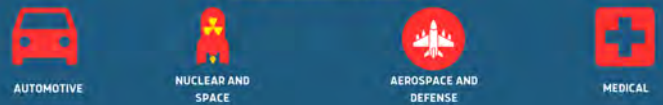
Polymer Encapsulation

In-House Screening Facilities



MIL STD 883 G

NOW SERVING



POSITION LIGHT SYSTEM



Input Voltage: 28VDC

Power Consumption: <= 12W

Compliant to RC/LUH/EL/TS/103
Weight 550 gms

Compliant to FAR 27/DEF STAN 00-970
Chapter 110/MIL STD 3009

Environmental Specification

- MIL-STD-810E
- MIL-STD-461E (EMI/EMC)



ANTI-COLLISION LIGHT



LED Based

Color: Covert IR Stroboscopic IR

Flash Rate: 60FPM

Luminous Intensity: 150 cd

Power Supply: 28VDC

Relevant DO160D

EMIS

ELECTRONIC MANUFACTURING SERVICES

Analog to Digital Conversion

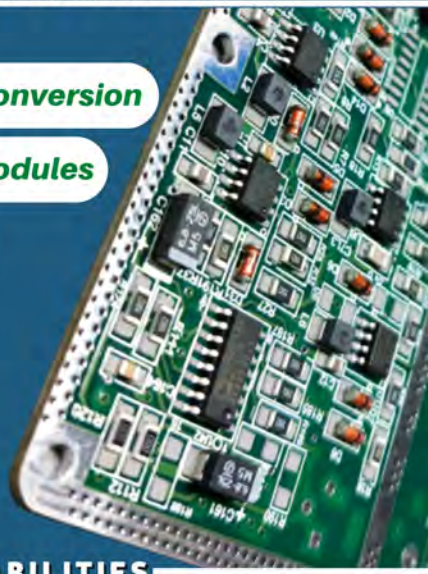
Communication Modules

Analog Modules

RF Modules

Processors

Displays

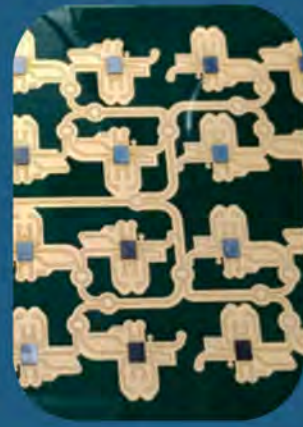


SERVICE CAPABILITIES

BGA - Upto 0.3 mm Pitch

Layers - Upto 30 With
Metal Embedded PCB's

Package Size - From 0201 Onwards



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