

Products Guide

www.dongah21.co.kr



HEAD OFFICE | R&D CENTER

565-1, Youngchun-ri, Dongtan-Myeon,
Hwaseong-Si, Gyeonggi-Do 445-813, Korea

Overseas Operation Div.

Tel. 82-31-371-4324 Fax. 82-31-371-4451
e-mail. dragons120@dongah21.co.kr

Domestic Sales Department

Tel. 82-31-371-4353 Fax. 82-31-371-4451
e-mail. dyyoum@dongah21.co.kr

USA Detroit BRANCH

35410 Beattie Drive, Sterling Heights, MI 48312, USA
Tel. 1-586-446-2280 / Fax. 1-586-446-2284
e-mail. jk.kim@decadorp.com

CHINA Rongcheng Factory

Gangxi-Zhen Town, Rongcheng-Chi,
Shangdong Province, China
Tel. 86-631-786-8827 Fax. 86-631-786-6814
e-mail. cbh0607@dongah21.co.kr

CHINA Shanghai Factory

No.69 Zhongshi Load, Hangtou Town,
Nanhui District, Shanghai, China. 201316
Tel. 86-21-6822-0710 Fax. 86-21-6822-0713
e-mail. younmy@dongah21.co.kr
www.dongah21.co.kr

CHINA Shaoguan Factory

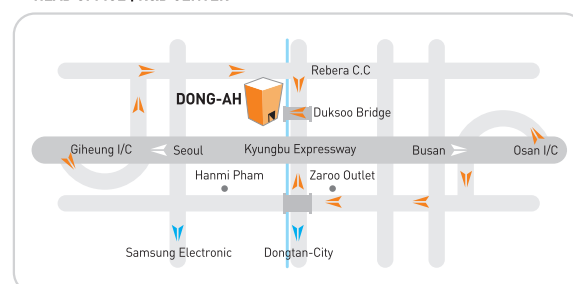
No.205 MuXi Street MuXi Industrial Park
Shaoguan City Guangdong Province China
Tel. 86-751-817-1310
e-mail. kjd1284@dongah21.co.kr

INDIA Factory

No.427/1A, Chettipuniyam Taluk, Kancheepuram
District, Pincode-603 204
Tel. 91-44-4353-5138
e-mail. fedra62@dongah21.co.kr



HEAD OFFICE | R&D CENTER



Message from CEO

Dong-Ah was first founded in 1975 and has grown up to be a leading manufacturer of automotive electrical components, with Dong-Ah Electric Equipment Co., Ltd. and Dong-Ah Electric Components Co., Ltd. formally being established in the 1980's to comply with the rapidly growing automotive industry in Korea.

However the management and employees, are not satisfied with current status and promise that we will do our best to supply you with the best products by ceaseless efforts toward creativity and challenge toward the 21st century.

For this, all of us will;

Firstly, do maximize R&D capability by multiple technical collaboration

We have already been utilizing advanced technology under technical assistant agreements with Micron, Shindengen and Calsonic in Japan and Gear Tech in Switzerland and we will supply you with only reliable products based on best technology and know-how accumulated during the last 30 years.

Secondly, do our best to diversify our market from domestic to overseas.

With the experience of success in Korea, we are expanding our markets especially in North America and Europe.

Finally, establish Zero-Defect Quality Assurance System.

Awarded TS16949, Single PPM under the slogan "Quality is the Value not the Price", we are on the way to set up the best quality products with intensive care for aftersales services.

To keep these promises, all members of Dong-Ah will demonstrate endless intention and motivation for creativeness and challenge. We will think in your position from the development to production, delivery and aftersales service to meet your demands.

Thanks again for your interest in Dong-Ah and thanks for your time to understand our company and our products.

President Woo-Yong Lee

History

- 2011 UL Certificate of Compliance(NO.122210-E343469) Pv-Connector
- 2010 UL Certificate of Compliance(NO.122210-E336909) Photovoltaic Junction Box
VED Certificate of conformity with factory surveillance(NO.40031344)
PV-Anschlussdose, Pv-Connection box(VDE REG._Nr. D534)
- 2007 Received the \$10 Million Export Tower Award from the Korean government
Established Dong-Ah AMERICA(USA)
- 2003 TS16949 CERTIFICATION(DQS-GmbH)
R&D Center moved into a New H/Q Building(in Gi-heung)
Award SINGLE PPM by the president of the Republic of Korea(2000-3)
Established Woonam(CHINA)
- 2000 Awarded an Appreciation plaque for excellent industrial accident prevention achievement from THE PRIME MINISTER
Awarded an Appreciation plaque as truthful tax-payer from THE MINISTER OF NATIONAL TAX ADMINISTRATION
Technical affiliation with GEAR TECH GmbH, SWITZERLAND
- 1999 Awarded an Appreciation plaque of truthful tax-payer from THE MINISTER OF FINANCE AND ECONOMY
- 1998 Awarded the best prize of the 100PPM achievement with quality innovation supervised by THE MINISTRY OF INDUSTRY AND ENERGY
- 1997 Started exporting control head for LT project of DAEWOO MOTOR POLAND
ISO9001 CERTIFICATION(KMA-QS/QSC60228)
- 1996 ISO9002 CERTIFICATION(KMA-QS/QSC60228)
Awarded the first prize in the grade inspection supervised by HYUNDAI MOTOR Co., Ltd.
- 1995 Technical affiliation with KOWA/CALSONIC Industry Co., Ltd. JAPAN
- 1991 Trade permission granted to Dong-Ah Electric Components Co., Ltd.(NO.142614)
- 1990 Technical affiliation with SHINDENGEN ELECTRIC Co., Ltd. JAPAN
- 1989 Established Dong-Ah Precision Industry company
Established Dong-Ah Electric Components Co., Ltd.
Technical affiliation with MICRON ELECTRIC Co., Ltd. JAPAN
- 1987 Trade permission granted to Dong-Ah Electric industry(NO.198987)
Established Dong-Ah Electric Equipment Co., Ltd.
- 1986 Established Dong-Ah Electric Industry
- 1975 Founded Dong-Ah Corporation



Research & Development

“Investing Today for Tomorrow”

Quality Management

Superior product quality bring customer satisfaction

Dong-Ah will continue to do its best to provide maximum customer satisfaction through constant quality innovation.



ISO-14001
Gong-Ju Korea Plant



ISO-14001
Rongcheng, China Plant



ISO-14001
Seoul Korea Plant



TS-16949
Gong-Ju Korea Plant



TS-16949
Rongcheng, China Plant

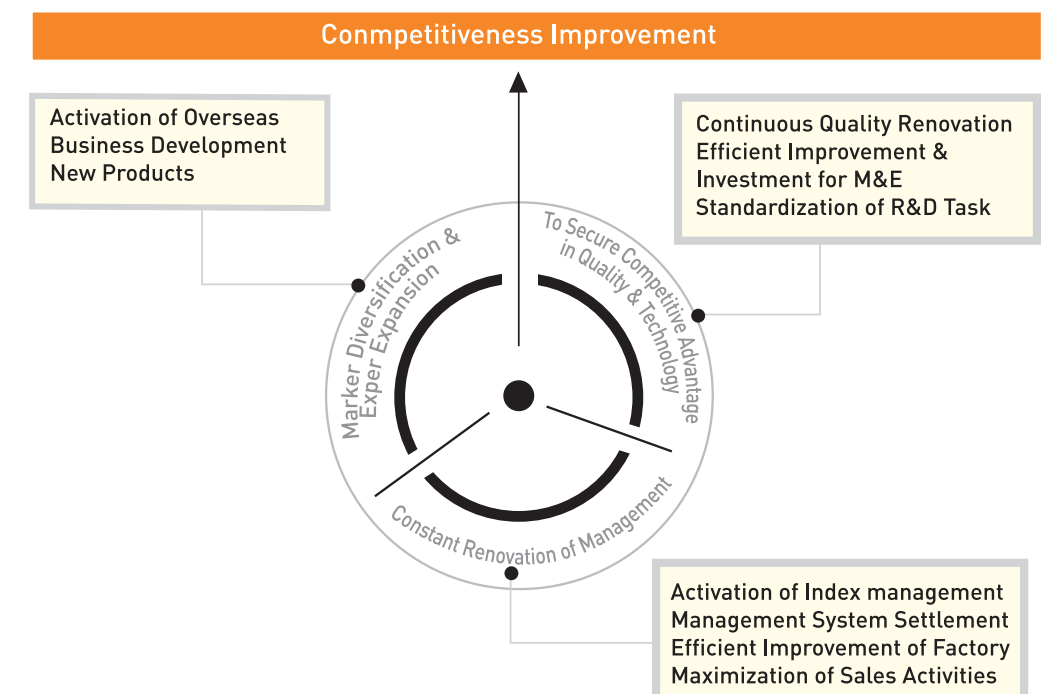


TS-16949
Shanghai, China Plant

Environmental Management & Vision

Our future is based on clean natural environment

Dong-Ah develops environment-friendly products and minimize discharge of pollutants



HVAC CONTROL HEAD

Application

Controlling the vehicle's interior temperature condition, blower speed and volume

End Customer



FATC

Feature

- Full Automatic Temperature Control
- CAN (Controller Area Network)
- LIN (Local Interconnect Network)

SATC

Feature

- Semi Automatic Temperature Control
- Contact type

MTC

Feature

- Manual Temperature Control
- Cable type

AUDIO & NAVIGATION / REAR VIEWER SYSTEM

Application

Audio & Navigation & Rear Viewer of vehicles

End Customer



Audio & Navigation

Feature

- RADIO+CDP/MP3+IPOD
- NAVI+BLUE TOOTH
- DivX, DMB
- RAER VIEWER

Audio

Feature

- RADIO+CDP(CDC)/MP3+IPOD
- BLUE TOOTH

Active Rear Viewer System

Feature

- Hidden camera
- EMI/ESD protection
- Motor lock protection
- K-Line

MOTOR SPEED CONTROLLER

Application

Heater and A/C blower motor speed control

End Customer



FET

Feature

- blower motor application (FATC blower SPEED Control)

Resistor

Feature

- Blower Motor Application (3 step , Hi speed fuse,Ceramic case)
- Cooling fan Motor Application (2 step - Hi,Low)
- Fuel Pump Motor Application (2 step)

Cooling Fan Motor Controller

Feature

- PWM type (Pulse Width Modulation)
- Over/Under voltage protection
- Over temperature protection
- Soft start
- Motor lock protection (Diagnosis output)

HIM Actuator

Feature

- Low operating noise
- Module package(Actuator + Resistor)
- Low cost

HVAC DC Actuator

Feature

- Low operating noise
- Increase door accuracy
- Slim & Light size
- Low cost

HEATER FOR INSIDE OF VEHICLE

PTC Pre Heater

Feature

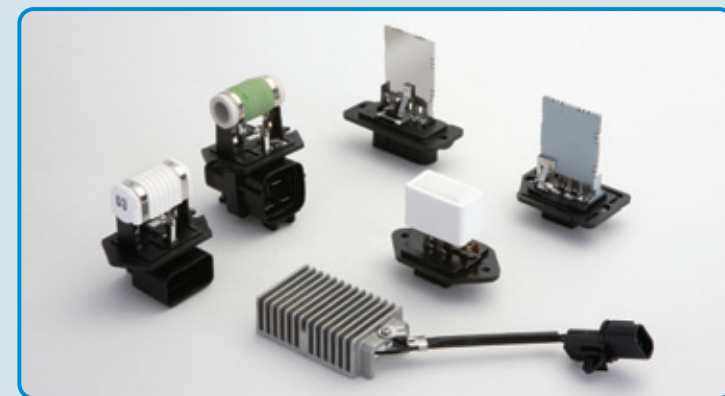
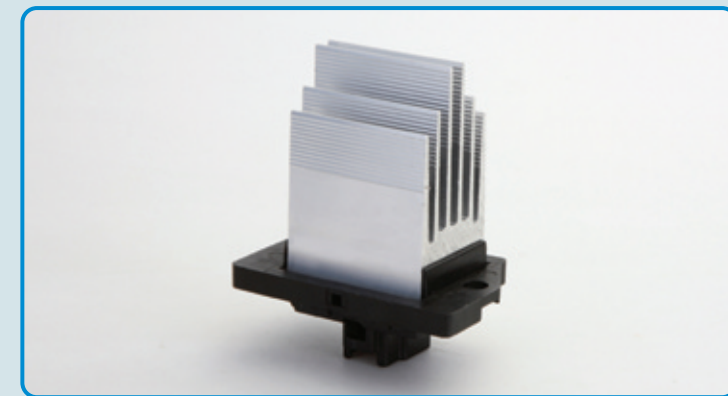
- Auxiliary heating until the coolant warms fully in diesel & HV vehicles.
- Prompt heating when engines start. (Provide comfortable driving condition)

HVAC ACTUATOR

Application

For actuating the damper operation of vehicles climate control system

End Customer

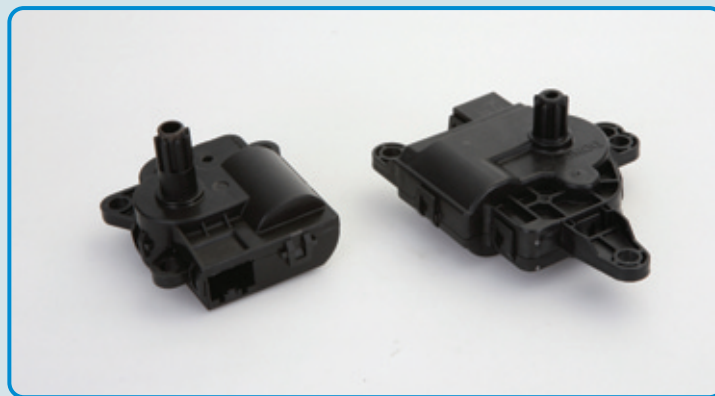


HVAC ACTUATOR & EPB ACTUATOR

Application

For actuating the damper operation of vehicles climate control system

End Customer



HVAC DC Actuator(Compact/Dual)

Feature

- Low operating noise
- Increase position accuracy
- Compact size
- Easy mounting



HVAC Stepper Actuator

Feature

- Increase life cycles
- Increase position accuracy
- Small size



EPB Actuator(Electronic Parking Brake)

Feature

- Low operating noise
- Robust Design
- Water Proof Design
- Low cost

REGULATOR & RECTIFIER

Application

Regulating the regular voltage by installation inside alternator

End Customer



Regulator

Feature

- Effective Heat Sink structure in Thermal Emission
- "C"-Terminal Alternator Voltage Regulator
- Applying polyphenylene sulfide



Rectifier

Feature

- Effective heat radiation maximization through heat sink
- Effective heat-excess minimization through maximizing the radiating area
- Diode Soldering Type



Regulator /Rectifier

Feature

1 Regulator (For BUS)

- PCB Type
- Applying Urethane filler
- Effective Heat Sink structure in Thermal Emission
- Applied ferrite for noise prevention
- "E" terminal vehicle direct assembly

2 Regulator/Rectifier(For Motor Cycle)

- Metal PCB Type
- Applying urethane and ceramic fillers
- Effective Heat Sink structure in Thermal Emission



- Regulator & Rectifier integrated
- Anodized heatsink surface
- Heat-resistant harness

Application

For transmitting date to ECU to decide the automatic speed change timing by sensing the revolving speed of auto transmission with mounted to automobile transvission case

End Customer



Sensor

Feature

- 1 5Th Auto Transmission Speed Sensor
- 2 Pulse Generator(Hall IC type)
- 3 Crank Shaft Position Sensor
- 4 6Th Auto Transmission Speed Sensor



Electronic Suspension Control

Feature

- 1 Sensor Cluster
(Sensors for ESC systems control)
- 2 Height Sensor
(Measure the vehicle height)
- 3 SI-ECU
(HID Head lamp leveling control)



EPB: Electric Parking Brake

Feature

- Principle of Operation: Actuator assembly locks rear caliper assembly as it is motorized by electric signal

Application

For transmitting date to ECU to decide the automatic speed change timing by sensing the revolving speed of auto transmission with mounted to automobile transvission case

End Customer



EST TCCU / AICM

Feature

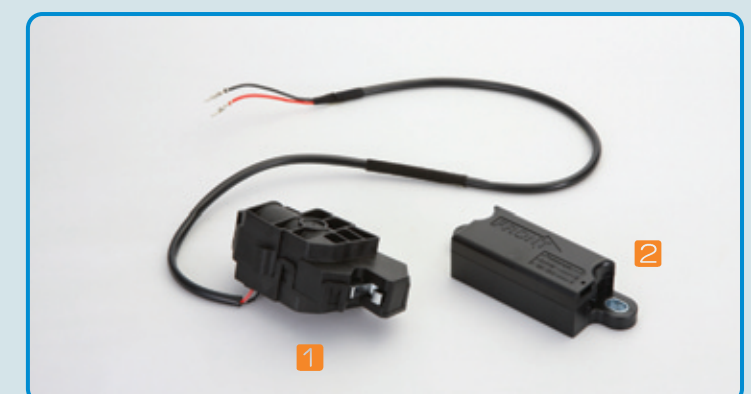
- 1 EST TCCU
 - Electric Shift Transmission Transfer Case Control Unit
 - K-line or CAN
 - Motor position control
- 2 AICM
(Electric vehicle HVAC control module)



Seat Warmer ECU

Feature

- Seat temperature controller
- Status & Error massage display



Active Headrest Solenoid & Sensor

Feature

- 1 Active Headrest Solenoid
 - Solenoid
- 2 Active Headrest Sensor
 - Rear impact sensor
(Mechanical type)

BRUSH HOLDER & WIRE HARNESS / PV-JUNCTION BOX

Application

End Customer



Brush Holder

Feature

- Metal or bearing type available to the using torque value
- Insulation plate or plastic injection type of brush card available



Wire Harness

Feature

- Connectors available to variable options
- Easy installation using brackets

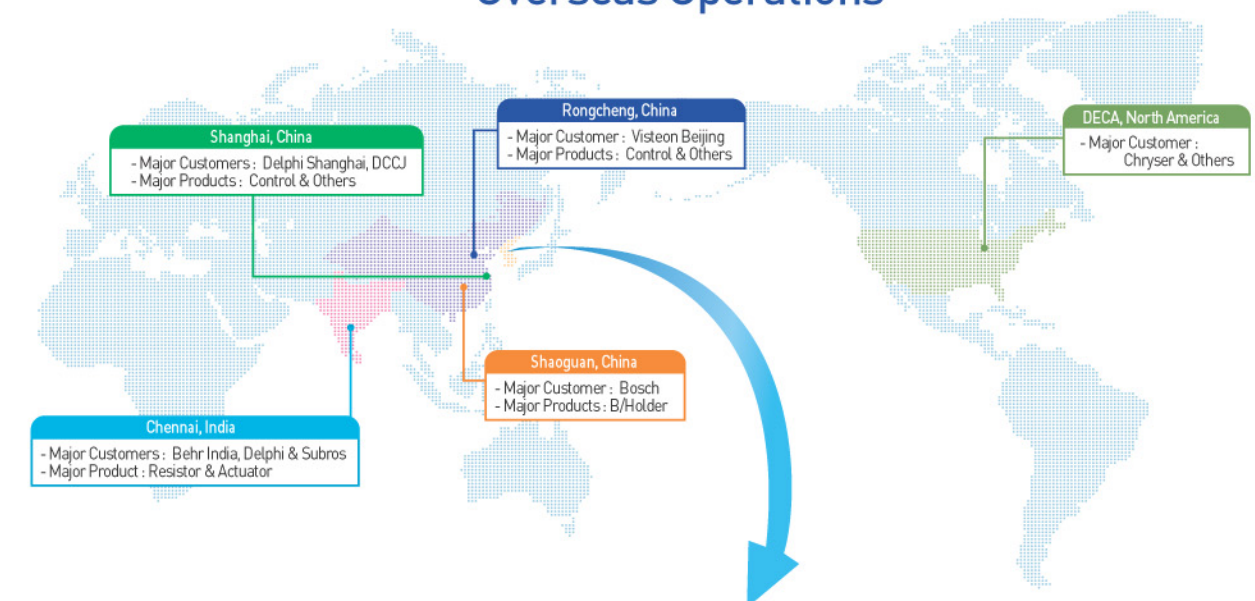


PV-Junction Box

Feature

- UL Certification (N0.122210-E336909) (600VDC, 25A)
- VDE Certification (VDE REG._Nr.D534) (1,000VDC, 20A)
- Bypass Diode (45V,40A)

Overseas Operations



Domestic Operations

