

# SamYoung Electonics Co., Ltd.





Summary

- Corporate name : Samyoung
- CEO : Dae-Ho Kim
- Established : 20th Aug 1968
- Employee : 1,620 P (Korea 640 P, China 980 P)

# Products

- Aluminum Electrolytic Capacitor
- Aluminum Solid Capacitor
- Capacity : 370 M PCS / Month





History

- '68. 08 Samyoung Electronics Co., Ltd was founded.
  - '72. 06 Established a Joint Ventured with Nippon Chemi-con
    - '76. 12 Listed going Public Stocks (KOSPI Korea stock market)

대·중소기업협력재단

- '88. 1 Established Samsong research institute
- '94. 06 Certificated IEC-Q
- 94. 12 Established Qingdao Samyoung Electronics in China
- 97. 12 Certificated ISO-14001
- (Foil factory) 01. 4 Established Poseung 1 Factory (Foil factory)
- '03. 7 Certificated SONY GREEN PARTNER
- '04. 9 Certificated ISO/TS 16949
- '08. 3 Established Poseung 2 Factory (Foil factory)
- '10. 12 Awarded Large and Small Business Cooperation Promotion Award
- '11. 3 Certificated Samsung ECO-Partner
- '15. 3 Awarded Exeamplary Taxplayer Award
- '15. 9 Certificated a over 9,830,000hrs uninjury record
- ' 18. 5 Certificated IATF16949



[Korea]

[China]





SET Portion		(Based on the sales amount)		
SET		2016	2017	2018
DISPLAY	LED TV, M/T	6.1%	3.1%	2.5%
	PSU	22.6%	25.8%	22.8%
Home Appliance		10.5%	13.8%	13.6%
Automotive		15.1%	15.6%	12.7%
Inverter		2.3%	3.7%	3.5%
DVD/ODD/COMBP		0.8%	0.4%	1.8%
SMPS/Charger		3.4%	2.8%	2.6%
Etc.		39.2%	34.8%	40.5%

User Portion		(Based on the sales amount)		
	SAMSUNG	LG	HYUNDAI	Etc.
2016	20.3%	21.6%	10.3%	47.8%
2017	23.8%	21.3%	10.8%	44.1%
2018	19.3%	18.1%	8.2%	54.4%

SATITYOUNG 3. Sa	les Amount
Main Clients	
Application	Partners
	Life's Good
Home Application	Arçelik Sanken & LITEON
0	HYUNDAI
Automotive	MOBIS ULNSU DELPHI
	OTIS ThyssenKrupp
Industrials	



# Production capacity

ТҮРЕ	Capacity (Kpcs/Month)		nth)	Amplication	
	Korea	China	Total	Application	
CHIP TYPE	47,800	44,000	91,800	CAR STB TV AUDIO	
RADIAL TYPE	37,500	239,350	276,850	CAR LED PSU TV	
LARGE TYPE	1,300	1,650	2,950	House application Elevator Industrial Invertor Green Energy	
Conductive Polymer	2,700	-	2,700	CAR Laptop Charger Main Board CCTV	
Total	89,300	285,000	374,300		



- IATF16949
- ISO-14001
- SONY Green Partner
- SAMSUNG ECO-Partner







# Raclial TYPE

재단(Slitting)	스티치(Stitch)	권취(Winding)	함침(Impregnation)	조립(Assembly)
The anode foil, cathode foil, and electrolyte paper are cut to the specified width from the source rolls of the specified length.	Leads for contacting the cathode and anode foil electrodes are attached either by stitching	The process of rolling a set of anode and cathode foils into a cylindrical form with a paper separator inserted between them.	The electrolyte is put into the wound capacitors	The rubber plug is attached to the filled element. Then, the element is placed in the case.
<b>•</b>				
재화성(Aging)	측정 (measurement)	가공&테이핑 (Forming&Taping)	출하검사(Shipment Inspection)	입고(Warehousing)
The specified voltage is applied to heal all the dielectric defects resulting from the cutting and winding procedure.	Automatically electronical character is measured to distinguish whether the units are defective or not	All units passed measuring process are processed to change Lead type or packing type by following client's demand	All units are subjected to sampling test by following KS A ISO 2859 standard. Non-conforming units are removed from production	All units passed previous process and haven't been found any defective are stocked





Stable material procurement



Increase in productivity



Improving quality by adopting advanced quality control technique





Self-Production of facilities

**O** Saymyoung could produce production facilities itself

**O** Lasting research and improvement of facilities for quality control and productivity





# Various Application

 Know-How for Development and Supply of Automotive Parts and Electric Parts including LED TV, LED Lighting.



NXQ/NBC seriese Air-Bag System MDPS Inverter **TV** power BCM ABS Super slim capacitor **BXQ/CLS/PFA Series RFA/TFA** seriese



Polymer capacitors for high voltage

# Samyoung can provide capacitors applied on various sets by developing polymer capacitors for high voltage





# 8. Automotive

# Engine Room

#### **ECU (Engine Control Unit)**



SAMYOUNG

- Needed Characteristics - High Temperature
- Recommended items
- CLZ: -40~125°C, 2K~5Khrs
- PXB : -40~125°C, 2K~5KHrs
- PHA : -40~150℃, 2KHrs

#### **MDPS(Motor-Driven Power**



- Needed Characteristics
- High Temp., reliability Recommended items - PXB : -40~125°C, 2K~5KHrs
- PFA : -40~135°C, 2K~3KHrs

#### ABS (Anti-lock Brake System)



- Needed Characteristics
- High Temperature
- Recommended items
- CLZ: -40~125°C. 2K~5Khrs

#### **TCU (Transmission Control Unit)**



- Needed Characteristics
  - High Temperature
  - Recommended items
  - CLZ : -40~125°C, 2K~5Khrs

#### \* Cooling Fan Controller



- Needed Characteristics
- **High Temperature**
- Recommended items - PXB : -40~125°C, 2K~5KHrs
- PFA : -40~135°C, 2K~3KHrs

#### Air-Bag System



- Needed Characteristics
- Long Life, Low Impedance.
- Non Capacitance reduction Recommended items - NZD : -55~105°C, 5KHrs Cap. Tolerance : 0%~30%

#### **DC-DC** Converter



 Needed Characteristics -Long life, High Reliability Recommended items - NXH : -40~105 °C 6K~10KHrs

#### **EPB** [Electronic Parking Brake]



Recommended items

#### Rear Blower Control Unit



#### Needed Characteristics

- Long life, High Reliability
- Recommended items
- NXH : -40~105°C 6K~10KHrs

#### **TPMS (Tire Pressure Monitoring System)**



#### Needed Characteristics - Long life, High Reliability Recommended items - BLA : -40~105°C. 5KHrs BLH : -40~105°C 10KHrs

## Body Part IMS (Integrated Memory system)

- Needed Characteristics
- General character.
- Recommended items
- NHA : -40~105°C, 2KHrs
- BDS : -40~105°C, 1KHrs

#### Cluster



- Needed Characteristics - General character.
  - Recommended items BDS:-40~105°C, 1KHrs

#### ESC (Electric Suspension Controller)

#### Needed Characteristics

- High Temp., Reliability
- Recommended items
- CLZ: -40~125°C, 1K ~ 5Krs

#### SMK (Smart Key ECU)



Needed Characteristics - Low Impedance, High cap. Recommended items



BXQ:-55~105°C.2Krs

#### **EPB** (Electronic Parking Brake)

- Needed Characteristics
- Low Impedance, High cap.
- Recommended items
- NXP : -55~105℃, 2K~5Khrs

17

### Needed Characteristics

# - NXP : -55~105°C, 2K~5Khrs











SET

## •ENGINE : MDPS, ABS, ENGINE ECU, FAN and ETC







Social contribution

# O Samsong scholarship foundation has been providing scholarship and voluntary services since 1984









20



Environmental Policy

# **Clients and environment are priority**



#### (Environmental Policy)

Samyoung Electronics ,as a leading company producing e-cap, propose the Environmental Policies in order to make better life and future based on Human and Environment below.

- 1. Involving production progress, all performance and service are improved by environmental control continuously.
- 2. Considering environmental R&D and design, Samyoung Electronics preoccupy the market through the environmental friendship products'
- 3. We insist on "zero" causing a pollutant for clean job place and environment.
- 4. We fulfill the regulation of domestic and international law and customer's standard.
- 5. We positively chase the saving energy and re-using / recycling the resource to reduce the carbon dioxide so that we can reduce green-house gases.

Samyoung Electronics all employee announce to preserve KSA 14001/ISO 14001 regulation for clean earth environment and to be a leading company of environmental friendship.

2016. 06. 01.

SamYoung Electronics Co. ,Ltd. President Dae-Ho Kim



# 삼영전자공업주식회사

