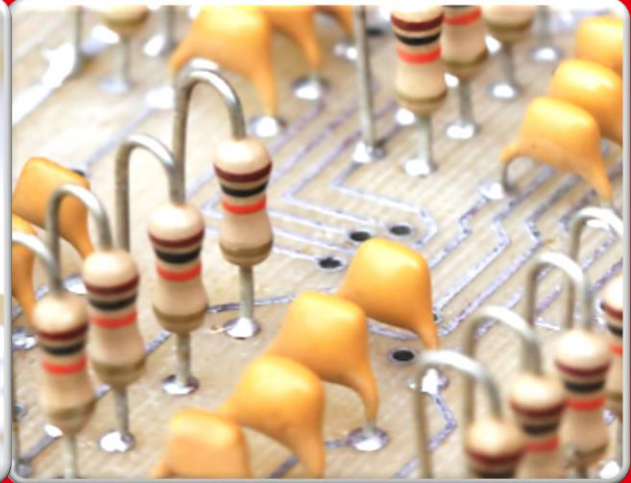
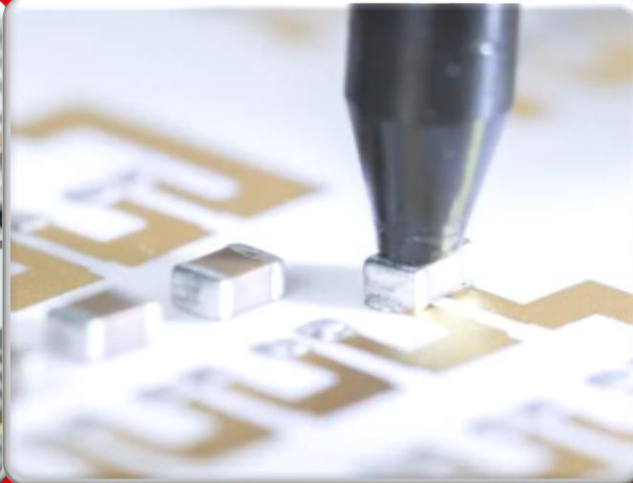
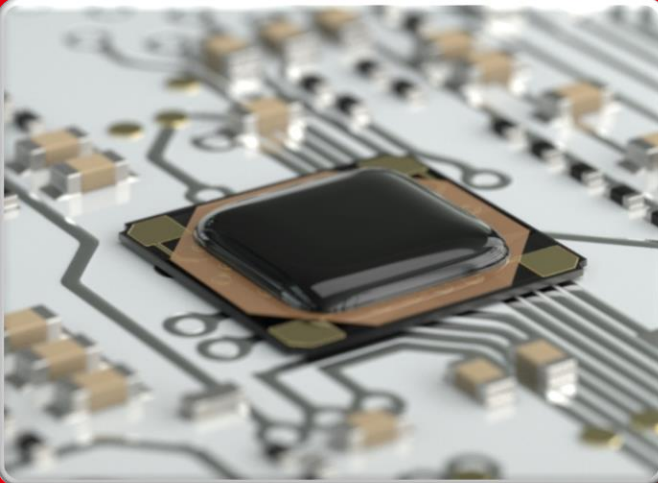




2023年电子元器件培训

E-COMPONENT APPLICATION TRAINING

AEI CHINA, 2023.2.7





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电子元器件概览

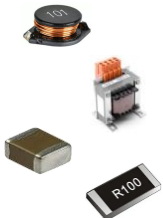
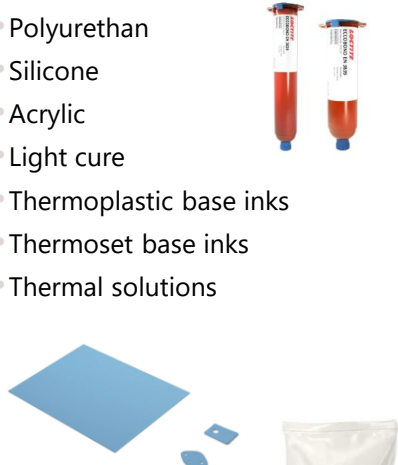
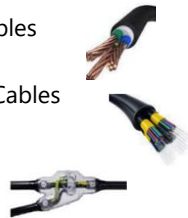
电子元器件应用介绍

- **无源器件**
- **传感器**
- **线缆和连接器**

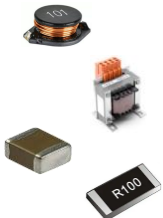
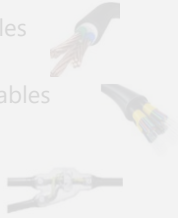
市场驱动和发展方向

Henkel

电子元器件总览 (IN CHINA)

CL1	CL2	Application Technology	Product Technology
Passive Components 无源器件	- Inductors 电感 - Transformers 变压器 - Capacitors 电容 - Resistors 电阻 	- Structure Bonding 结构粘结 - Sealing 密封 - Glob Top & Encapsulation 封装 - ECA & Inks 导电胶粘剂&油墨	- PA Hotmelts - Epoxy - Polyurethan - Silicone - Acrylic - Light cure - Thermoplastic base inks - Thermoset base inks - Thermal solutions 
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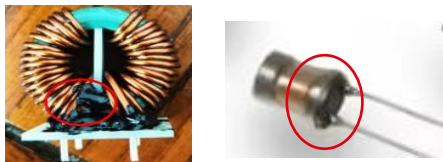
PASSIVE COMPONENTS - INDUCTOR

无源器件-电感

■ 粘结 & 固定



开磁式功率电感



插件电感

产品方案:

- G500/G757/G909
- 144A

■ 粘结 & 密封



闭磁式功率电感

产品方案

- G500
- 2332

■ 线圈保护胶



贴片电感

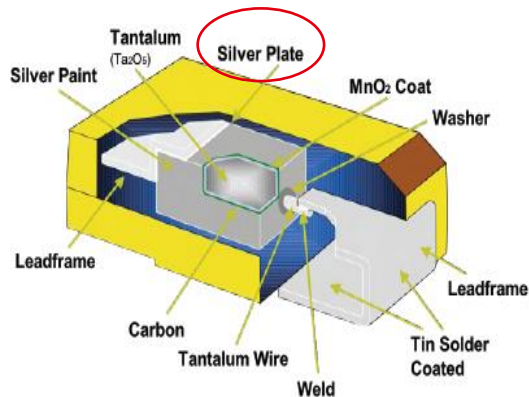
产品方案

- UV300

PASSIVE COMPONENTS - CAPACITOR

无源器件-电容

■ 钽电容

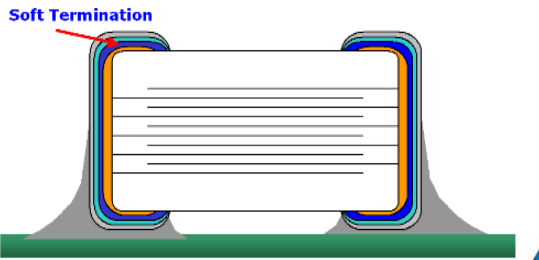


产品方案:

- C-110 (for MnO₂), ECI4001
- C-510 series (for MnO₂)
- ED-503 (for CP); CP-8820 (for CP)

■ 陶瓷电容

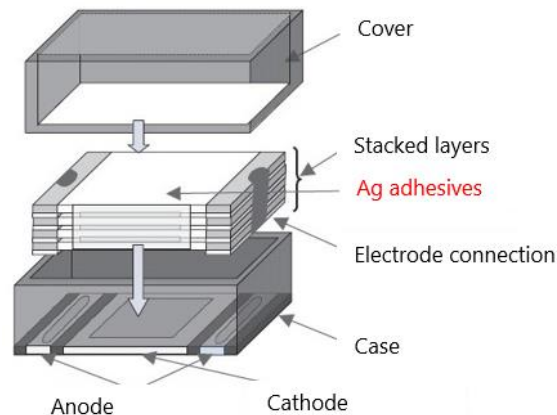
Soft Termination - Mechanical Performance



产品方案

- C910-3

■ 铝电容



产品方案

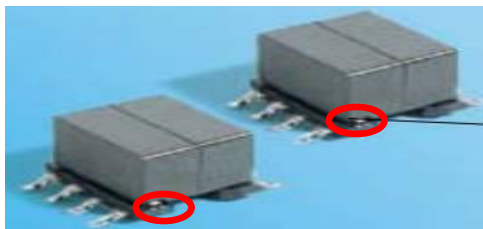
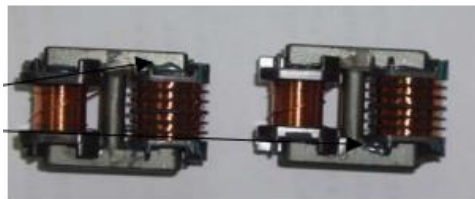
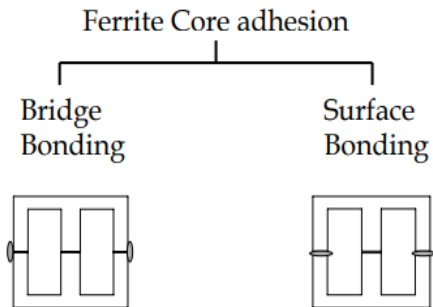
- C860-1J (180C-60min)
- CE3920 (150C-5min)
- CE3513 (180C-1min)

PASSIVE COMPONENTS - TRANSFORMER

无源器件-变压器

主要应用：粘结

- 磁芯间粘接
- 磁芯与支架之间粘接与固定



产品方案：

名称

ABLESTIK G 500 /G500HF

ABLESTIK G757/G757HF

ABLESTIK G909

ECCOBOND A359LV

ECCOBOND A329-1

ECCOBOND 2332/2332HF

ABLESTIK 8387B

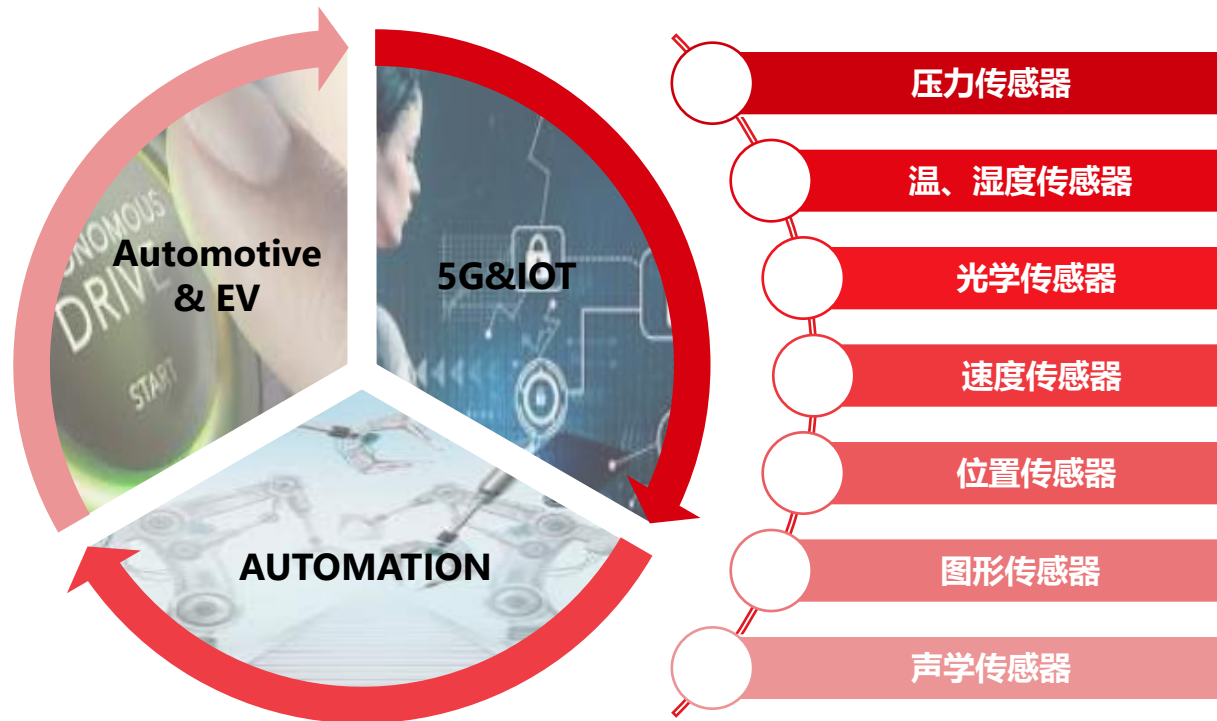
- G500/G500HF由于不满足公司的可持续发展目标，新项目将不再推荐该产品！

电子元器件总览 (IN CHINA)

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SENSORS MARKET

传感器市场



SENSOR APPLICATION ANALYSIS

传感器应用解析



灌封 Potting

LOCTITE STYCAST 2651-40
CAT11

LOCTITE STYCAST EO 1058

LOCTITE STYCAST 2850FT
CAT 9

LOCTITE STYCAST 2850FT
CAT 11

LOCTITE STYCAST E 2534 FR
CAT 11

LOCTITE STYCAST 2651-40
CAT23 LV

LOCTITE STYCAST 2651MM



封装 Glob top & Encapsulation

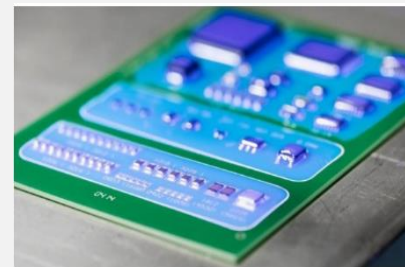
LOCTITE STYCAST EO 1072

LOCTITE STYCAST EO 1016

LOCTITE STYCAST EO 1061

LOCTITE ECCOBOND UV 9060F

LOCTITE ECCOBOND EN 3838T



三防漆 Conformal Coating

LOCTITE STYCAST
PC 40-UMF

LOCTITE STYCAST PC 62

LOCTITE STYCAST UV 7993

LOCTITE SI 5293

LOCTITE SI 5296

SENSOR APPLICATION ANALYSIS

传感器应用解析

低压注塑

耐高温

PA673, PA682, PA2692, PA678, PA687
PA2692(oil resistance)

高粘结

PA633, PA652, PA6208, PA638, PA657

高硬度

PA341, PA641, PA646

医疗级

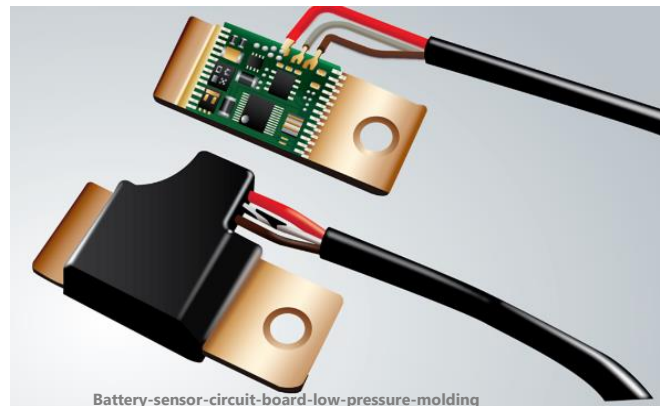
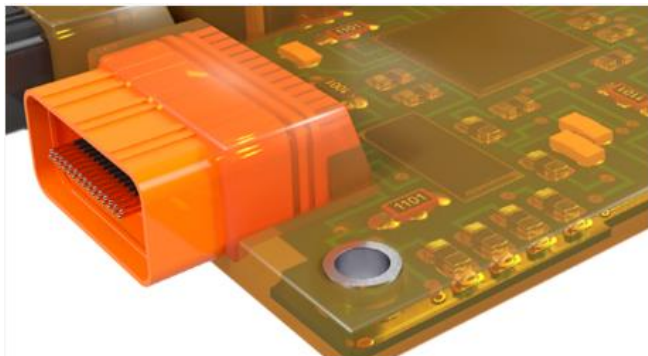
PA 6951, PA 6732, PA 6682

光学应用

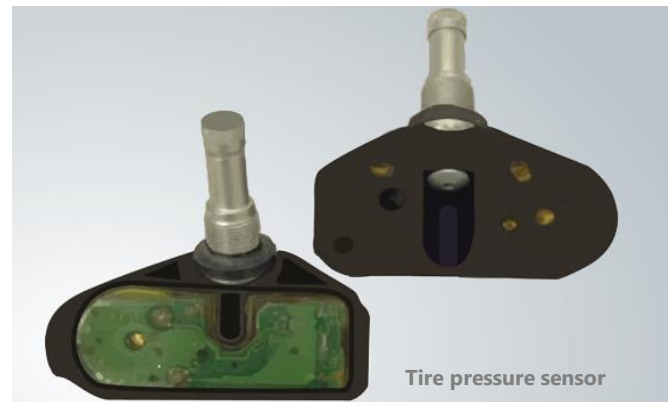
AS4226, AS 5375

高耐候性

PA 668, PA 6344, PA 6481 B



Battery-sensor-circuit-board-low-pressure-molding



Tire pressure sensor

Henkel

SENSOR APPLICATION ANALYSIS

传感器应用解析

密封 Sealing



LOCTITE SI 5910

LOCTITE AA 5810F

LOCTITE SI 5088



灌封 Potting



LOCTITE STYCAST 2651-40 CAT11

LOCTITE STYCAST EO 1058

LOCTITE STYCAST 2850FT CAT 9

LOCTITE STYCAST 2850FT CAT 11

LOCTITE STYCAST E 2534 FR CAT 11

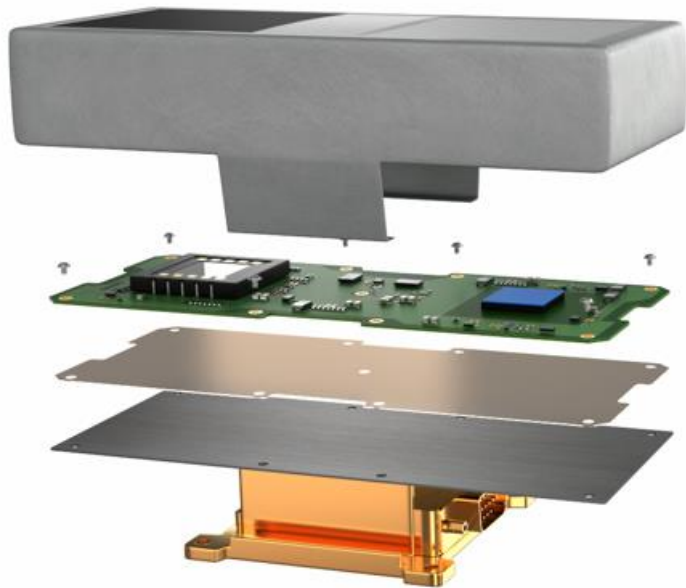
LOCTITE STYCAST 2651-40 CAT23LV

LOCTITE STYCAST 2651MM

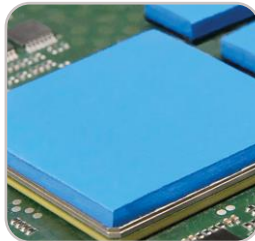
Henkel

SENSOR APPLICATION ANALYSIS

传感器应用解析



Thermal conductive 导热产品



导热垫片
Gap pad

- TGP 1000 VOUS
- TGP HC3000



导热填缝
Gap filler

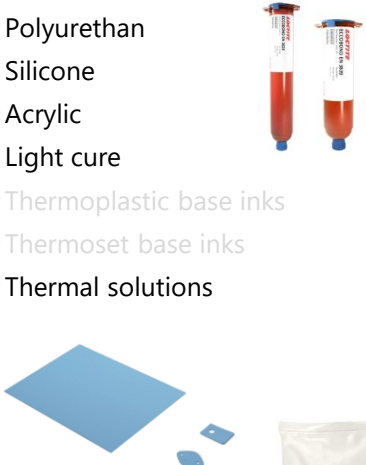
- TGF 1500LVO
- TGF 3000SF
- TGF 4500CVO



导热灌封
Thermal potting

- TGF 1400SL
- Loctite SI 5631
- Loctite SI 5636
- PE 8082 AB

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线缆和连接器

CABLES & CONNECTORS



电源 Cables



通讯
Cables



连接器connectors



线缆和连接器主要应用

CABLES & CONNECTORS MAIN APPLICATION

■ 热熔胶产品应用为主



Overlap bonding

AS 2230, AS 3265, AS 5362

Jacket bonding

AS 5362

Sealing

AS 4415 (water swellable)

Cable Filling

TEROSON CF 290, CF 300, CF 320E

Fiber coating

AS 5303, AS 4115

Cable Connection

PA 2315,

线缆和连接器主要应用

CABLES & CONNECTORS MAIN APPLICATION



▪ 充电插头“导热”热熔胶

"Thermal conductive" Hotmelt for charging plugs

要求

- 减少热应力, i.e., 充电插头处的应力释放
- 防水、粘结性, 可持续发展的环保材料

方案

- **导热型** PA热熔胶
- **TECHNOMELT® PA 6773 Grey**

优势

- 快速成型
- 良好的附着力和水密性
- 环保 (85% 取自天然原料)
- 1 W/mK 的高导热率

MARKETS DRIVING ELECTRONIC COMPONENTS BUSINESS

驱动电子元件业务的市场

eMobility & Autonomous Driving



5G & IOT



Industry 4.0 & Robotics



Renewable Energies Infrastructure



Cable & Connectors

Sensors

Smart applications & connections across industries drive need for diverse types of sensor components & modules.

Passive Components

eMobility drives need for high-performing & reliable components (i.e., capacitors, relays)

Increased network connectivity & electrification drives need for developing & renewing Telco and power cable infrastructure and associated connections.



THANKS FOR YOUR ATTENTION