



CHILISIN ELECTRONICS CORP.
Total Solution Provider for EMI, Power and RF.



CompoTEK

CHILISIN ELECTRONICS CORP.

Company Presentation 2014





CHILISIN ELECTRONICS CORP.
Total Solution Provider for EMI, Power and RF.



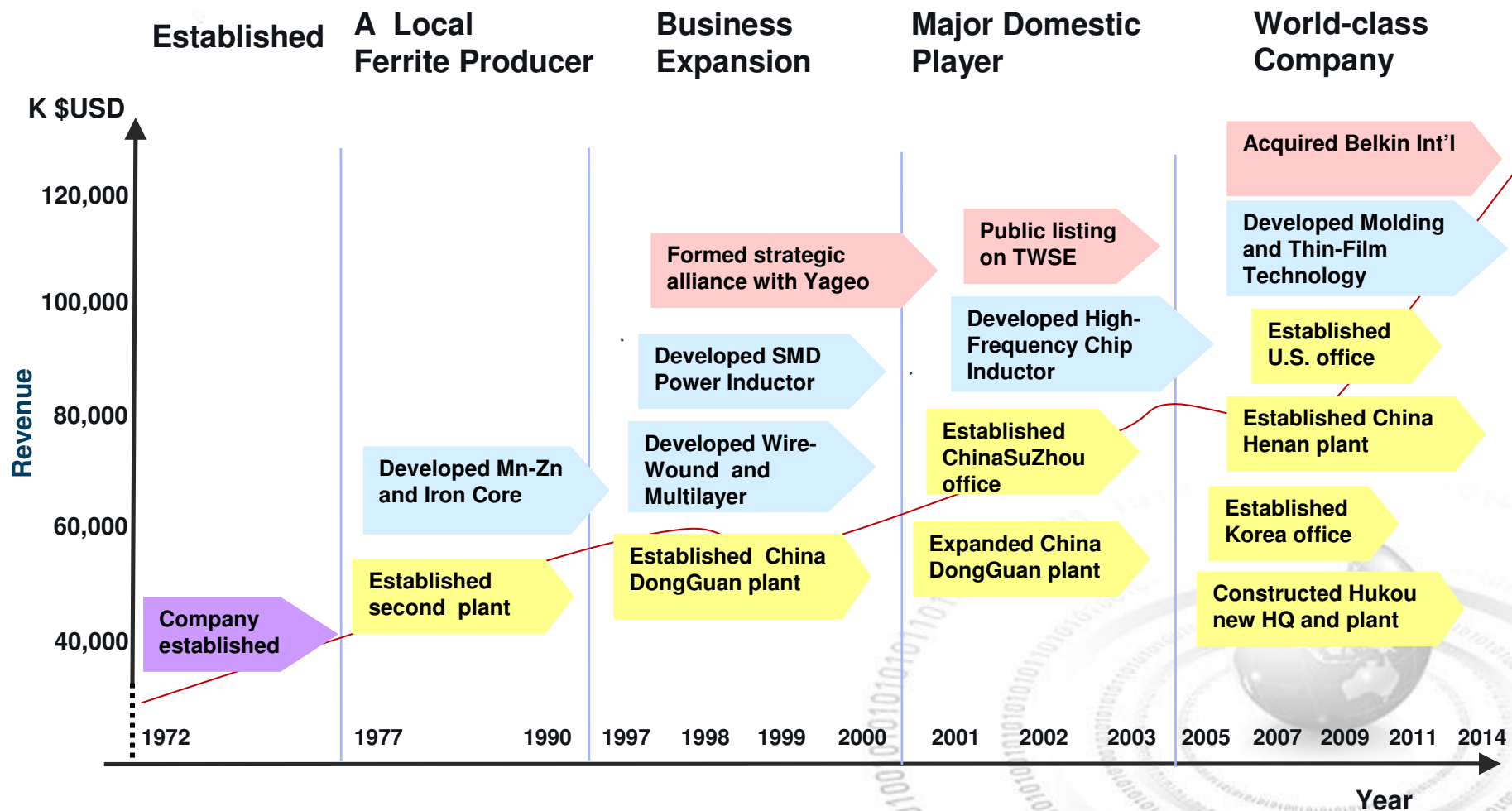
CompoTEK

Outline

- ☐ Corporate Overview
- ☐ Product Introduction
- ☐ Product Roadmap
- ☐ Leading Brand in China



Company Milestones



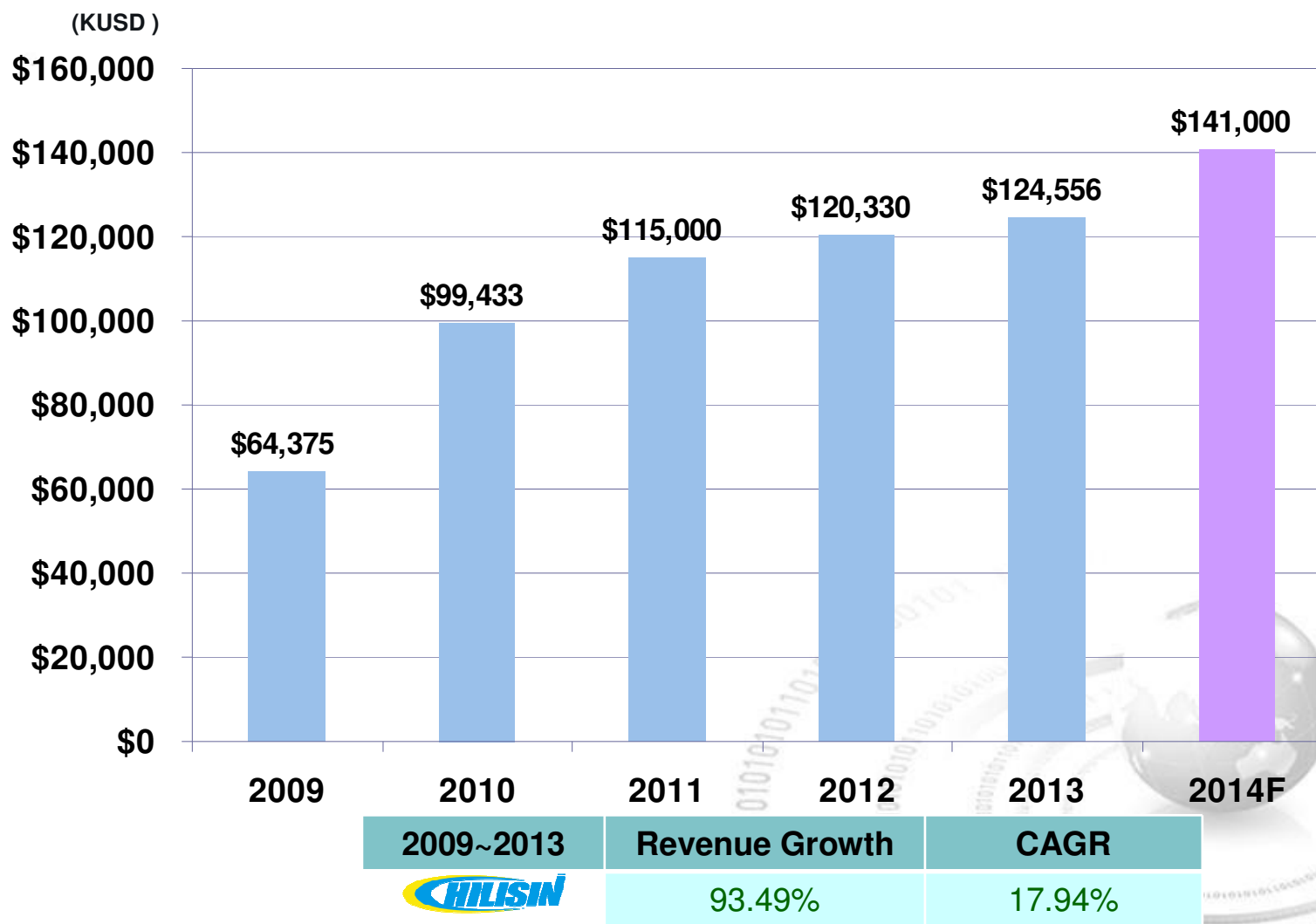


CHILISIN ELECTRONICS CORP.
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Sales Revenue



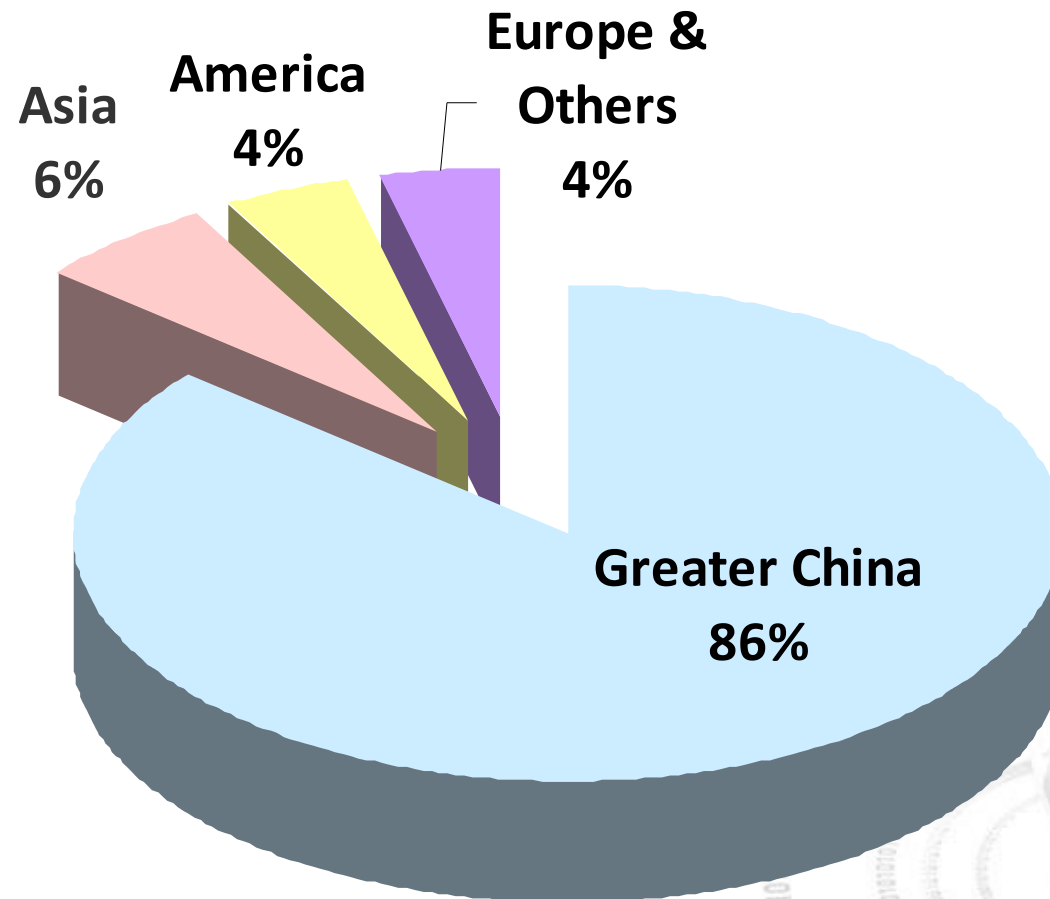


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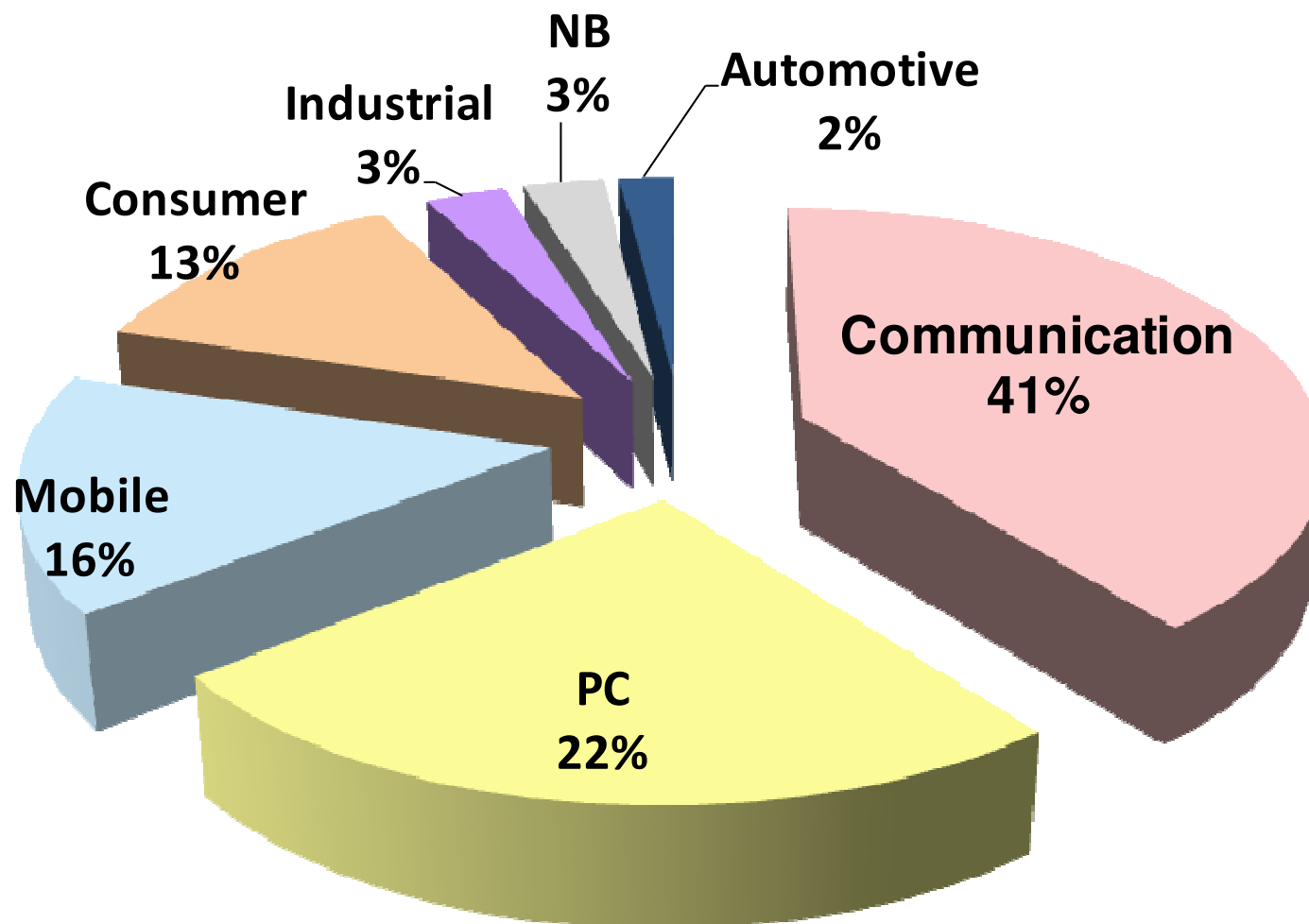


CompoTEK

Sales Breakdown 2013 – By Region



Sales Breakdown 2013 – By Market Segment





CHILISIN ELECTRONICS CORP.
Total Solution Provider for EMI, Power and RF.



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Major Customers

PC / Systems



OEMs / EMSs



Telecommunication



Consumer Electronics



Automotives



Factory Overview



Headquarter
Hsinchu, Taiwan

Est. 1972
Employee: 751



Factory
Dongguan, China

Est. 1997
Employee: 1,199



Factory
Henan, China

Est. 2010
Employee: 518



Factory
Suzhou, China

Est. 2001
Employee: 96

-----All factories are ISO 9001 and TS 16949 certified -----

Wire-Winding				
Molding				
Multi-layering				
Thin-film				
Through-hole				

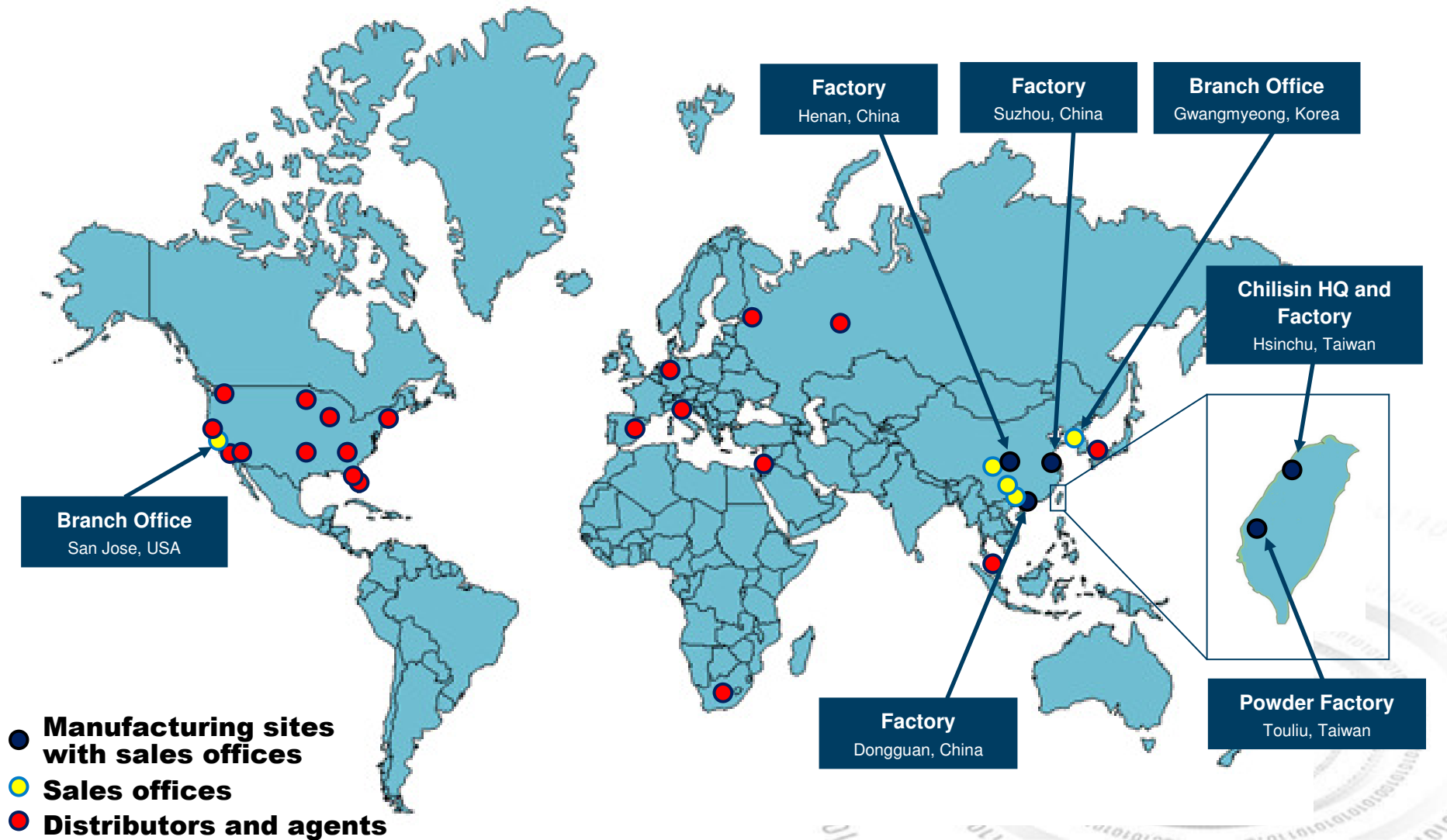


Manufacture Site



Finished Products Inventory

Global Network & Support



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- ☐ Appendix



Product Line and Technology

Wire-winding

Power Inductor

- Wide range
- for power solution



Magnetic-resin Power Inductor

- 2016~3030 size for mobile phone
- 4040~5050 size for tablet PC
- 6060~8080 size for TV/audio



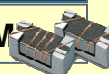
Chip Inductor

- Ferrite core for baseband application
- Ceramic core for RF application



Common Mode Choke

- for USB2.0/3.0/HDMI



Molding

Power Inductor

- DIP type
- for motherboard



Power Inductor

- SMD type
- for notebook & tablet PC



New - Power Inductor

- SMD Miniature type: 3225~2012 size, t: 0.8mm
- for handset & ultrabook



Multi-layering

Ferrite Bead

- Up to GHz band
- Downsize from 0402 to 0201



Chip Inductor

- Baseband & RF application
- Downsize from 0402 to 0201



Power Inductor

- 2520~1608 size, t: 0.55mm
- for handset & ultrabook



Common-mode Choke

- 0805 package
- for USB2.0



Thin-film Process

Chip Inductor

- For RF application
- 0201 size +/-0.1nH



Core Formation

In-house Powder Mixing Technology

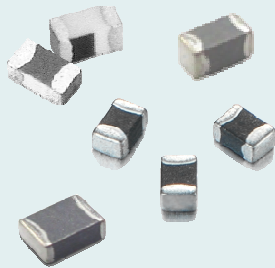
Powder Formula

Production Capacity

(Million Pcs/month)

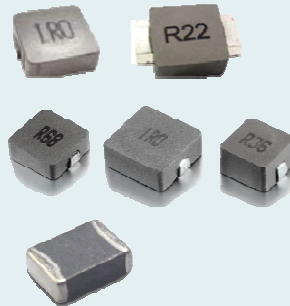
Multi-layering

Total: 2,600



Molding

Total: 130

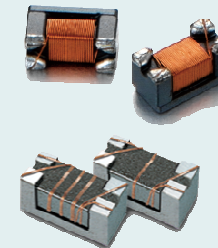


Wire-winding

Chip Inductor
Total: 140



Common Mode
Total: 30



Thin-film

Total: 40



Through-hole

Total: 100



Power Inductor
Total: 110





CHILISIN ELECTRONICS CORP.
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Diversified Applications

Computing / Mobile



Display



Set Top Box



LED



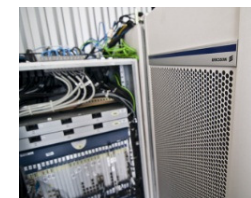
DSC



Home Appliances



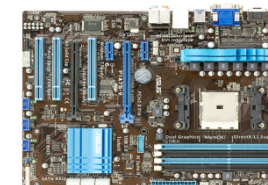
Server



Automotive



Mother Board



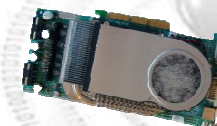
Game Console



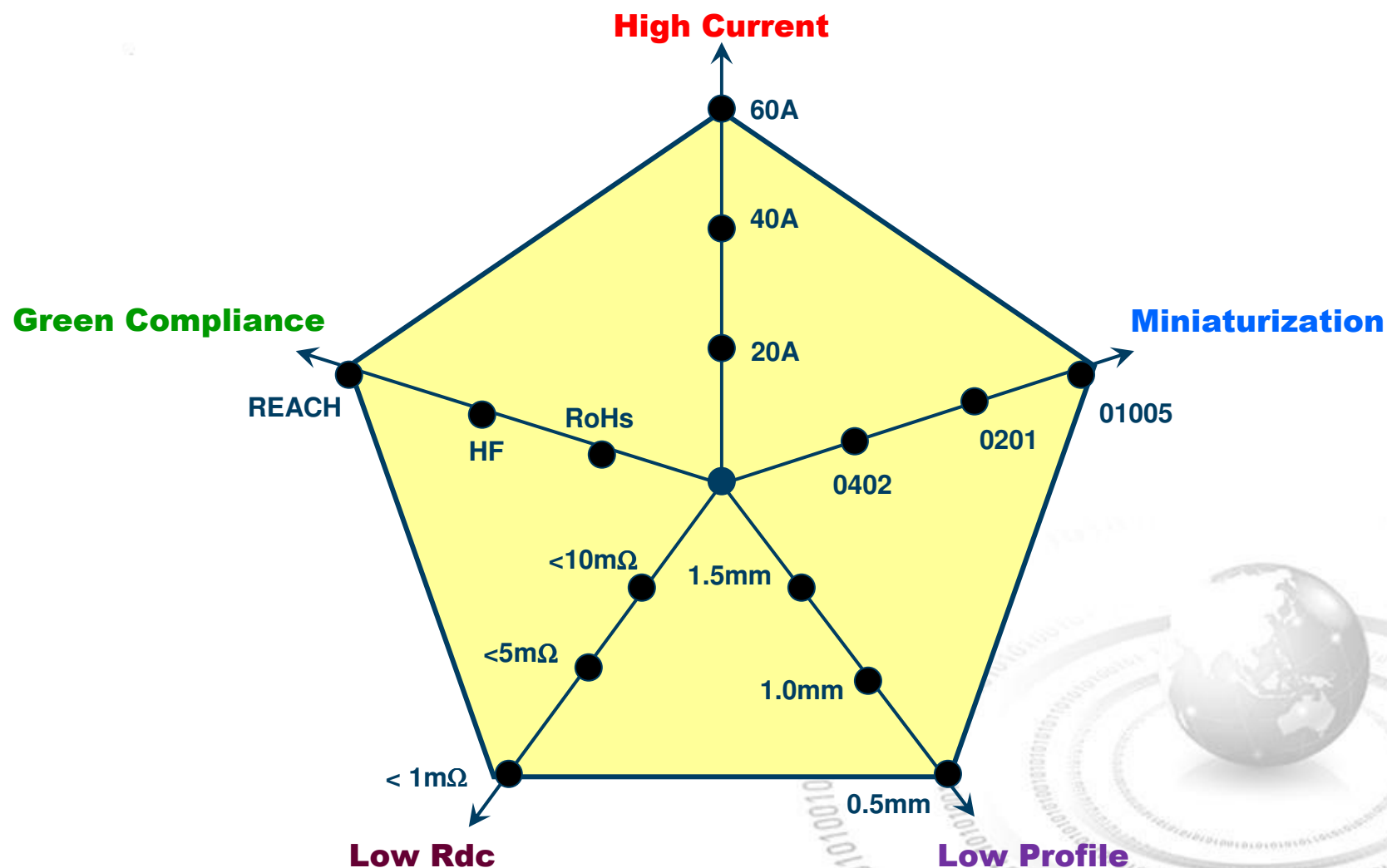
Alternative Energy



Graphic Card



Product Development Trend

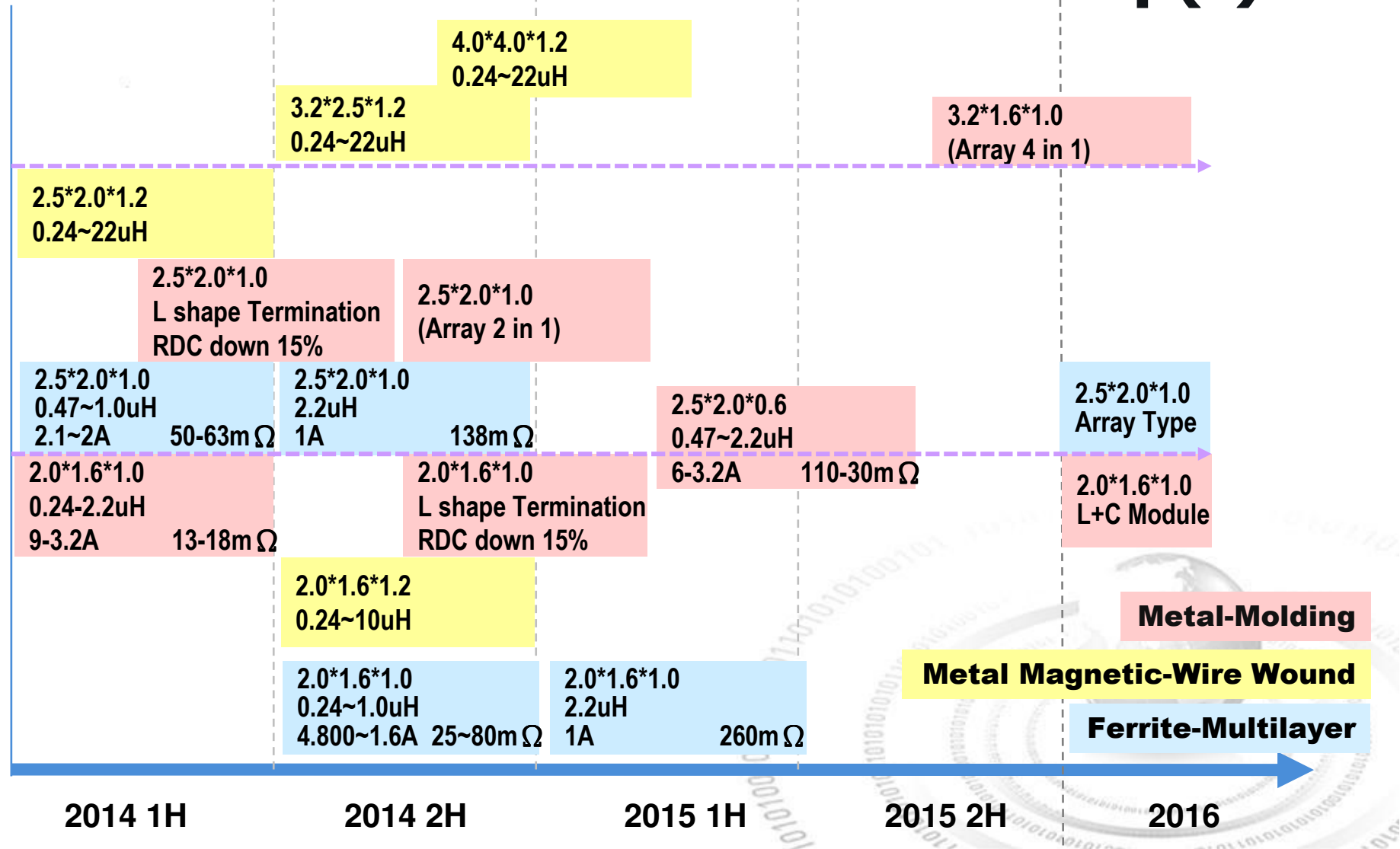


Outline

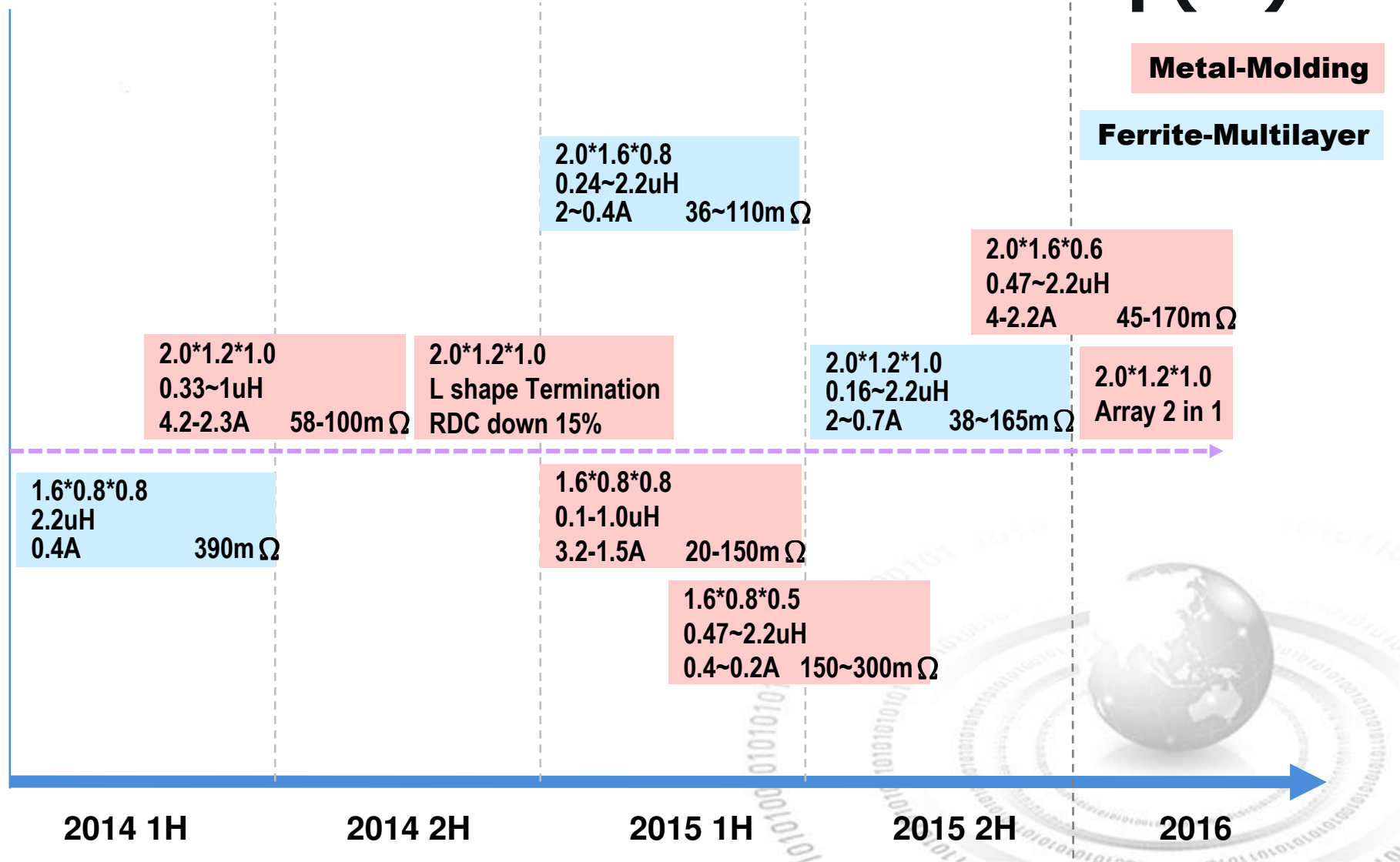
- ☐ Corporate Overview
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- ☐ Appendix



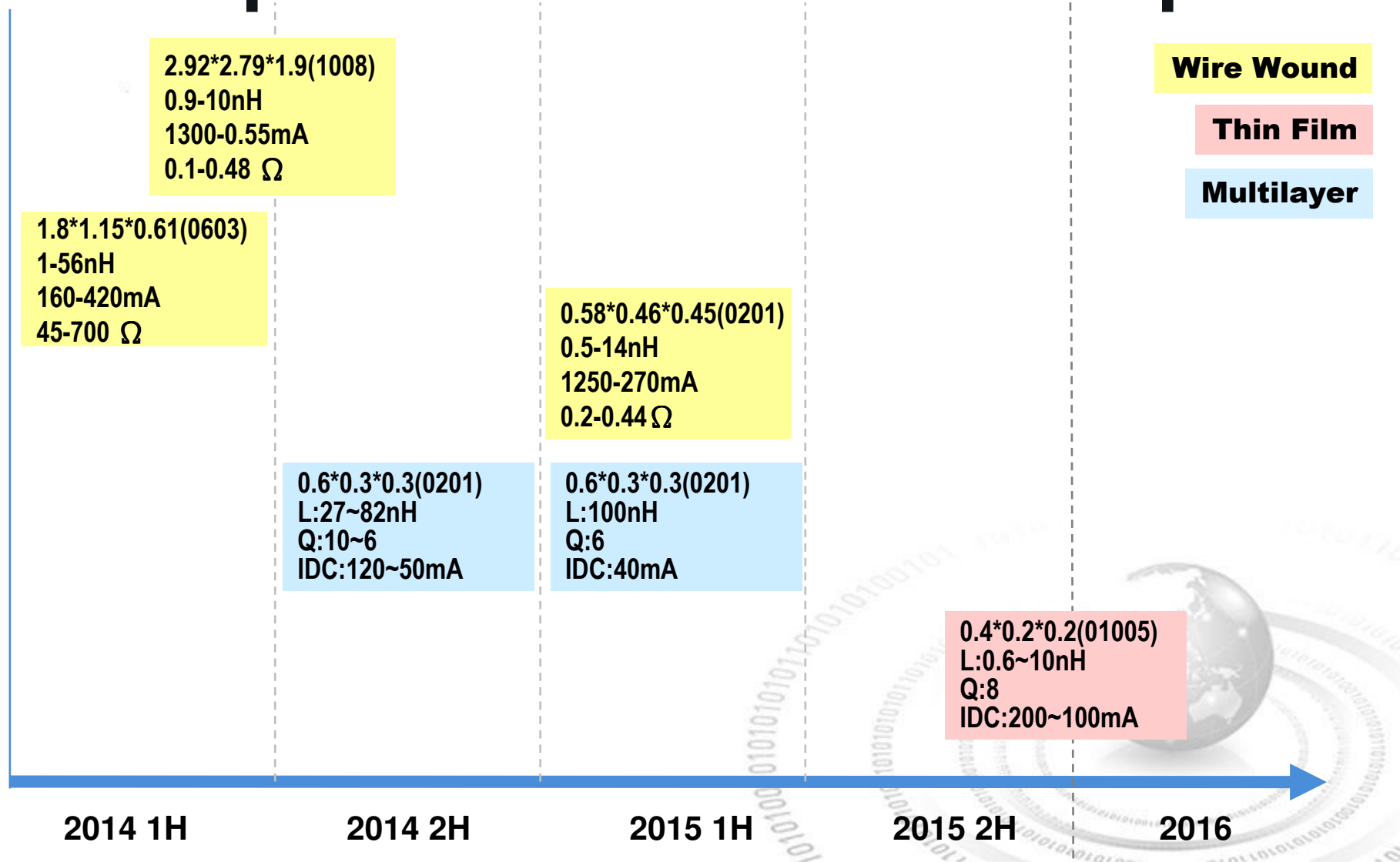
Power Inductor Product Roadmap(I)



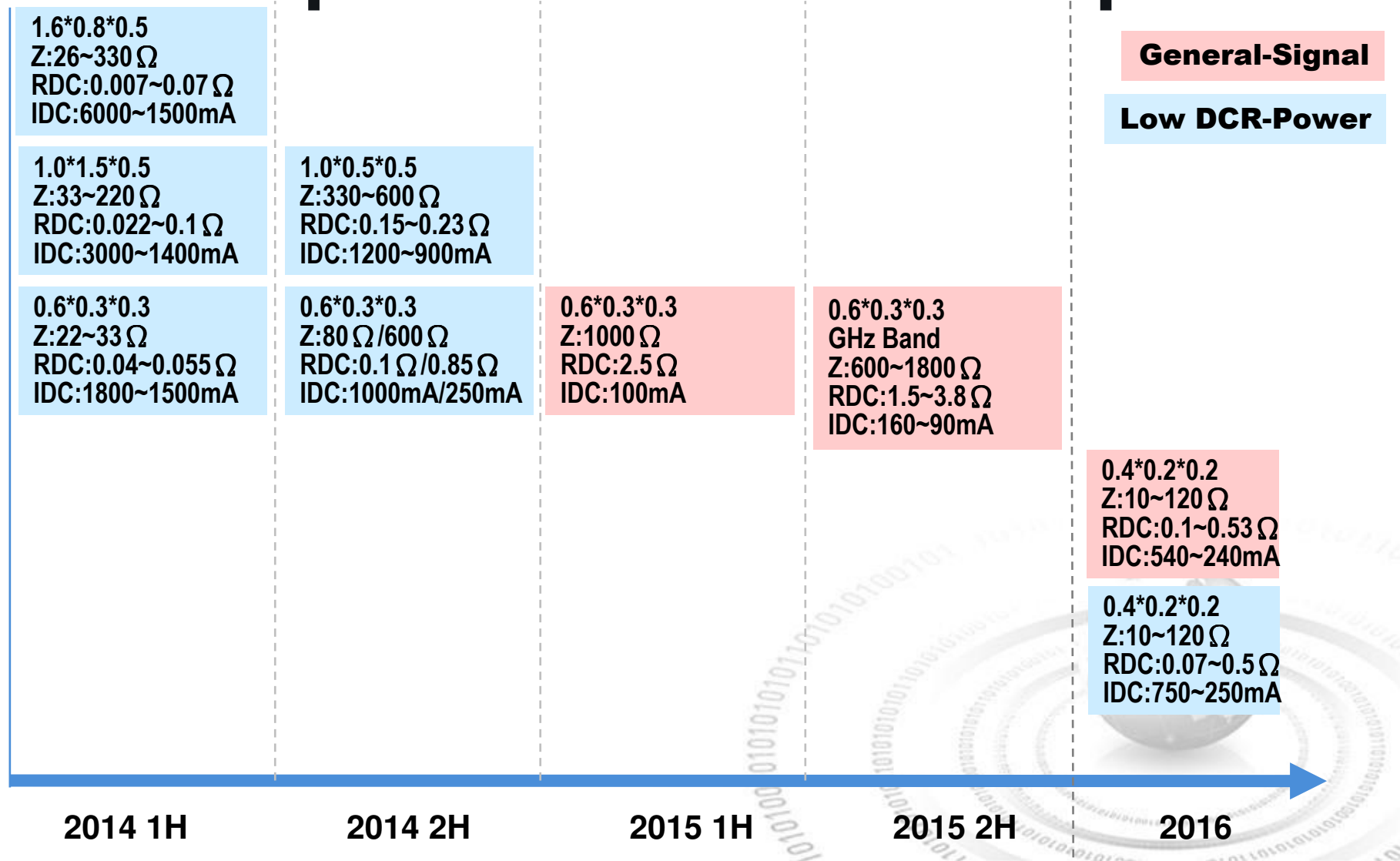
Power Inductor Product Roadmap(II)



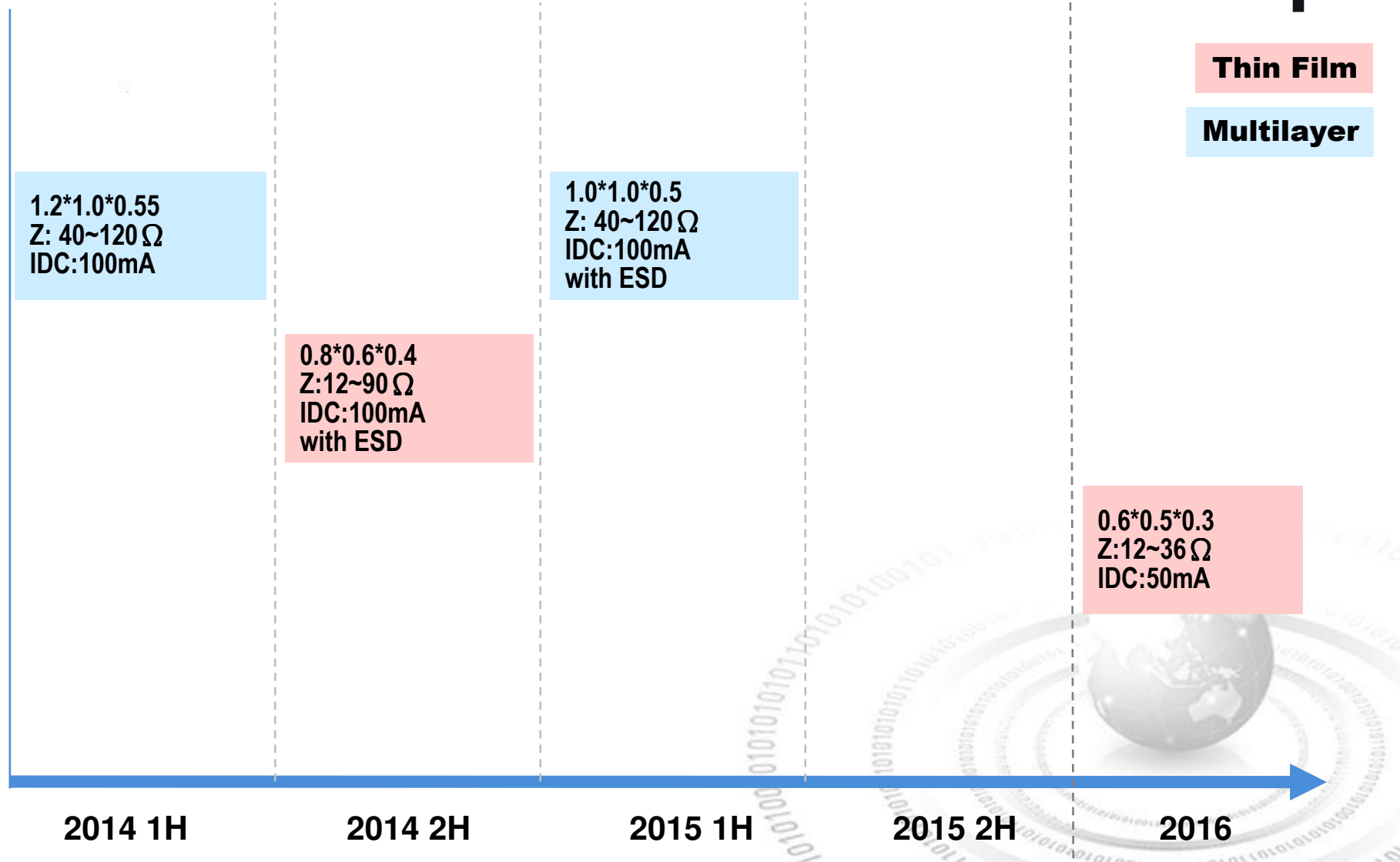
Chip Inductor Product Roadmap



Chip Bead Product Roadmap



Common Mode Choke Product Roadmap



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Certificates and Awards

- Best Supplier Award from New Kinpo (2010)(2013)
- Best “Cooperate To Win” Award from Lenovo (2011)
- Outstanding Supplier Award from SerNet (2011)
- Best Supplier Award from Asus (2005)(2007)
- Best Supplier Award from Solectron (2007)
- Best Supplier Award from Zyxel (2006)(2007)
- TS16949 Certification (Since 2005)
- Samsung Eco-Partner Certificate (Since 2005)
- ISO 14001 Certification (Since 2004)
- Sony Green Partner Certificate (Since 2003)

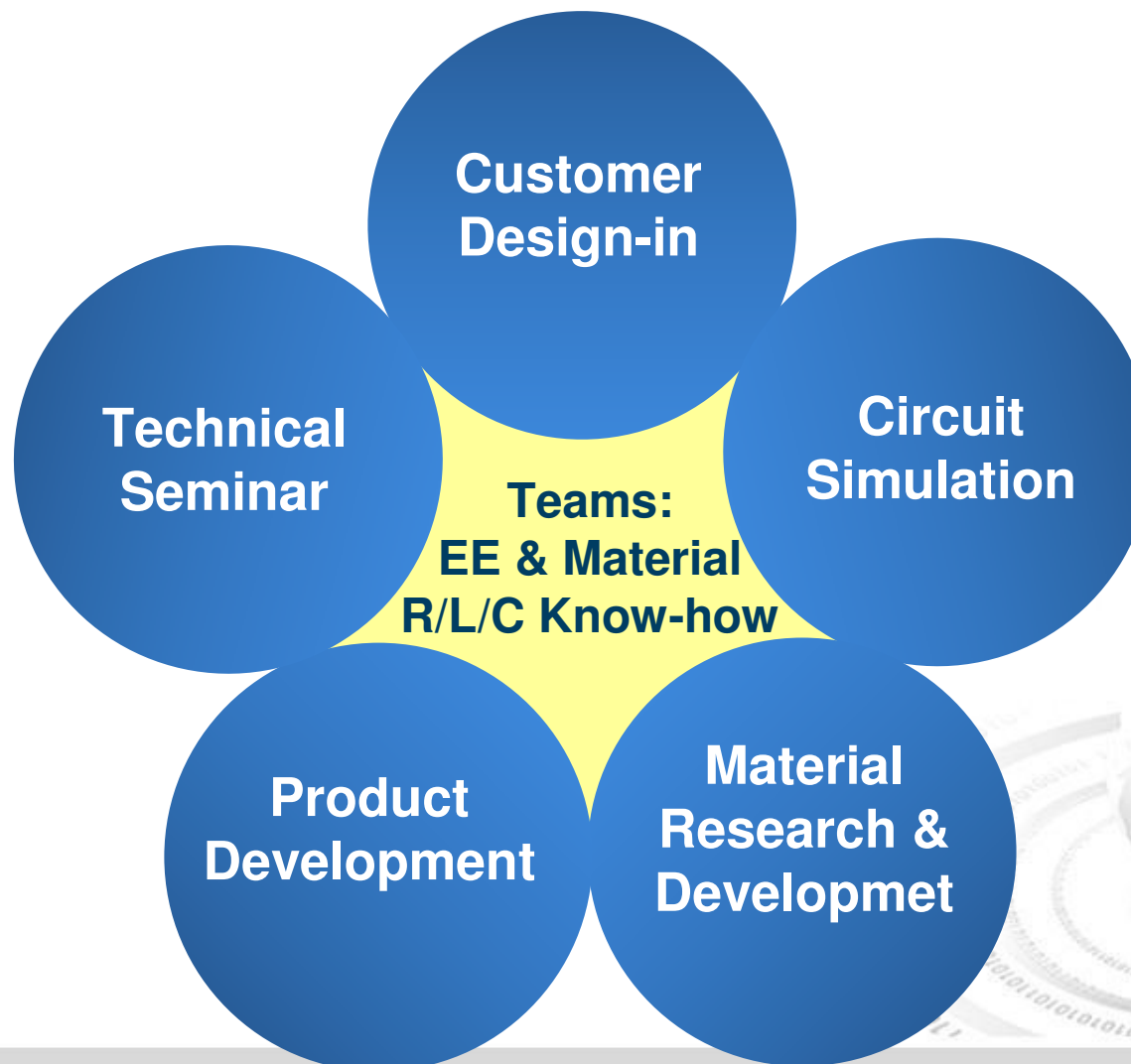


Value-added Service



Technical Service

Work Frame for Engineering Support



Trustworthy Supplier

Competitive Products

- Full Range of Magnetics Series
- Sufficient Capacity Support
- Vertical integration from powder mixing to inductor manufacturing
- World-class Quality
- Cost Competitiveness
- Quick Delivery & Flexible Logistic Support

Value-added Service

- Total Solution Provider for EMI, power and RF
- Design-in Capability
- Professional Engineering Support
- Material Research & Development
- Concurrent Product Innovation





CHILISIN ELECTRONICS CORP.
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Appendix



Product Selection Guide - SMD Type

Chip

Multilayer

Beads

General (Signal)
SB 0201~1812
5~2700Ω / ~0.6A
GB 0603~1812
7~2000Ω / ~1A

Large Current (Power)
PB 0201~1812
7~1500Ω / ~6A
xPB 0603~1812
10~600Ω / ~9A

High Speed(Power/Signal)
NB 0402~1206
5~2700Ω / ~3A

High Freq. (Power/Signal)
HF 0402~0603
120~1800Ω / ~1.5A
SBH 0402~0603
20~44Ω / ~0.4A

Inductors

High Freq. (Signal)
CHQ 0201
0.6~22nH /
~0.9A

High Freq. (Signal)
CLH 0201~0805
0.2~390nH /
~0.6A

General (Signal)
CL 0402~1206
0.01~33uH/
~0.3A

General Power
MP 0603~1008
0.47~4.7uH/
~1.8A

Common Mode Chokes

USB2.0
CMF21
0805
67~120Ω

Wire-wound

Inductors

High Freq.
General CS / LCN
Low Profile CT
High Q HQ
Large Current HC
HighQ&Current HP/PM/HPH
0402~1206
1~15000nH / ~2.4A

General Signal/Decoupling
NL/Lx 0805~1210
0.005~680uH /
~2A
SQV 1210~1812
0.1~2200uH /
~0.7A
SQC 0805~2220
0.15~10000uH /
~6A

Common Mode Chokes

USB2.0
IEEE1394
CMM11
0504
60~160Ω/~0.3A
CMM21/31
0805~1206
30~2200Ω/~3.7A
CMDH21
0805
67~120Ω
~0.4A
USB3.0
HDMI
CMMI21
0805
50~130Ω/~0.5A
CMMI11
0504
50~130Ω/~0.5A

Thin Film

Inductors

High Freq.
TFL 0201
0.6~22nH
~0.45A

Product Selection Guide - SMD Type (Con.)

Power Inductors

Wire-wound

Un-shielded

SCD 3.5*3.0~13.0*13.0mm
H: 1.1~7.0mm
0.82~8200uH / ~9.5A
~0.2mΩ



SSL/SSL-HC
6.5*5.6~16.26*22.35mm
H: 1.0~8.0mm
1.0~1000uH / ~20A
~0.009mΩ



Shielded

SCDS 3.2*3.2~12.5*12.5mm
H: 1.0~8.0mm
0.8 ~1000uH/~9.8A



SLPS 4.0*4.0~5.0*5.0mm
H: 1.8~2.5mm
1.0 ~47uH/~3.9A



SDS 6.6*4.45~18.54*15.24mm
H: 2.92~7.62mm
1.0~10000uH/~5.0A



SLF 6.0*6.0~12.5*12.5mm
H: 2.8~7.5mm
1.2uH ~1500uH/~13A



Magnetic (Metal)-resin Shielded

LVx 2016 H: 1.0mm
MRSC 2520 H: 1.0~1.2mm
3030 H: 1.0~1.5mm
4040 H: 1.0~2.6mm
5050 H: 2.0~4.0mm
6060 H: 2.0~4.5mm
8080 H: 4.0mm
0.47~1000uH /
~13.8A
~0.01mΩ



Ultra Large Current
CPUN 8.8*8.4~12.3*11.7mm
H: 7.0~10.0mm
0.22~6.8uH/~37A
SFx 7.7*6.9~14.7*6.7mm
H: 5.0~7.3mm
0.1~0.51uH/~87A



Molded

Shielded Ultra Large Current

MHCx 040 H: 1.2~2.0mm
050 H: 1.2~3.0mm
060 H: 1.2~3.0mm
100 H: 3.0~4.0mm
125 H: 3.5~4.0mm
0.1~22uH / ~46A
~0.6mΩ



MHSC 040 H: 1.5~3.0mm
060 H: 3.0mm
080 H: 6.0mm
0.22~10uH / ~40A
~1.6mΩ



MHCD 2.0*1.2~3.2*2.5mm
HEI H:0.8~1.2mm
0.24~2.2uH / ~9.5A
~27mΩ



Product Selection Guide - DIP(PTH)

Coils & Power Chokes

Wire-wound

Molded

Un-shielded

Shielded Ultra Large Current

Shielded Ultra Large Current

Customized spec
BC

MB



Common Mode Chokes
BCx



CPU 0806~1210
H: 7.0~10.0mm
0.22~120uH / ~40A
~0.78mΩ



DMI 0807~1210
H: 7.5~12.0mm
0.22~4.7uH / ~45A
~0.7mΩ



Customized spec
TDH

TD/SL

TC



Customized spec
RxH



Customized spec
EMI Filter (Power/Data Line)



Product Selection Guide - Soft Ferrite Cores

Cores

EMI Filter
Ni-Zi Series



Iron/Ferrite power Toroid



Ferrite Series



Product Application – Graphic Card

Vcore
(CPU)



(SFx)



(DMI)



(MHCx)



(CPUN)



DC-DC Converter

(SCD)



(LVS/LVF)



(SSL)



(MB)



(DMI)



EMI Filter for Power

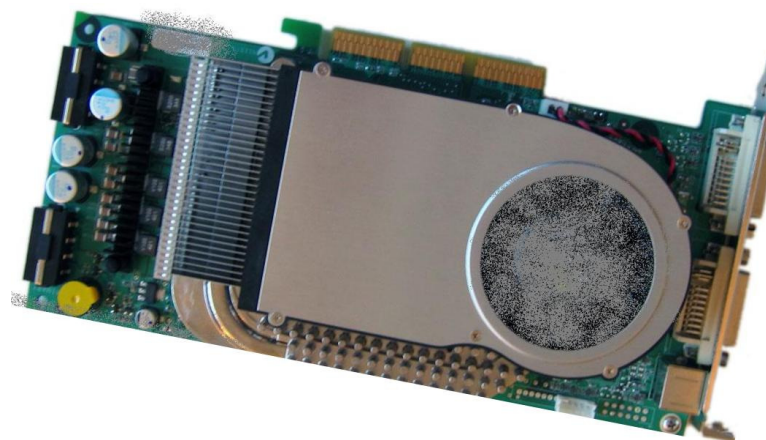
(GBK)

(SBK)

(SBY)

(PBY)

(NBQ)



EMI Filter for Signal

(CL)

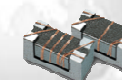


(CS)



USB2.0/USB3.0/HDM

(CMM)



Product Application - Motherboard

Vcore (CPU)

(CPU) (SFx)

(DMI) (MHCx)

(CPUN)



DC-DC Converter

(PBX) (LVS/LVF)

(DMI) (MHCx)

(CPU) (SFx)

(SCD/SCDS)



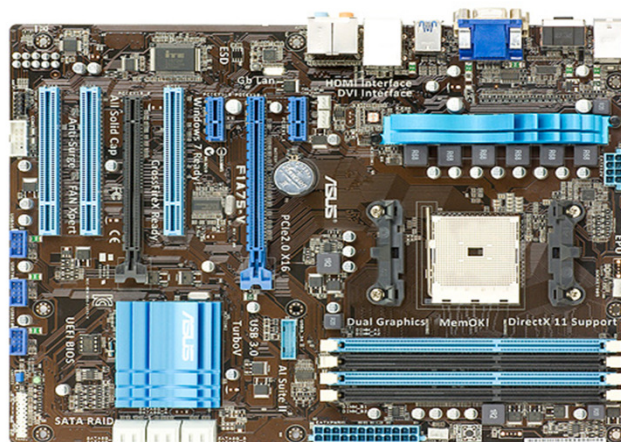
HDMI/DVI/Analog RGB
(CMM)



**USB/IEEE1394/
LAN Interface**
(PBX) (CMM)



AC Adapter
(RH) (TFU)
(ET/UT)



South Bridge
(CP, PBX)



Video Chip
(CLH)

(PBU)

(DMI)

(MHCx)

(CPU)



Product Application – Tablet PC

WiFi / Bluetooth

(CLH) (NBQ, SBJ, HFJ)



Camera Unit

(SBY, CL, MPB)



3G

(CS)



(CLH)



DC-DC Converter

(PBY)



(CMM)



(LVS)



(MHCC)

(LVF)



Back Lighting

(LVS)



(LVF)



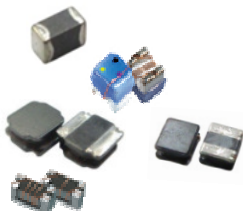
(MPB)



Product Application - Server

Baseband Processing

(Bead-NBI)
(CS)
(LVS/LVF)
(CMM)



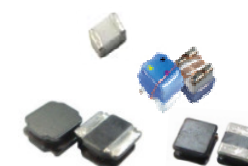
Control & Clock

(Bead-NBI)
(LVS/LVF)



Remote Radio

(CLH)
(CS)
(LVS/LVF)



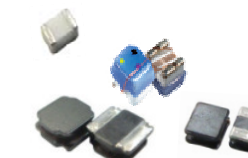
Power Management

(Bead-PBY)
(SQV)
(LVS/LVF)
(SCD/SCDS)
(MHCC)
(DMI/CPU)
(SF)



Filter Switch

(CLH)
(CS)
(LVS/LVF)



AC Adapter

(SCD)
(RH)



Product Application - Smart Phone

RF Circuit

(CLH)
(NBQ, SBJ, HFJ, CHQ)
(TFL)



Camera Unit (SBY, CL, MPB)



Analog TV Circuit

(CLH) (CS) (CM)
(LD) (CMM11)



DC-DC Converter

(LVS) (MPB)
(LVF)



Product Application – Digital Camera

**Analog Front End
(NBI, PBY)**

(BA)



**Lens Motor
(NBI)**



**Speaker
/Microphone
(BA)**



**USB/HDMI
(PBY)**

(CMM)



**Image
Processing IC
(NBI)**

(BA)



**Power Supply Unit
(CL)**

(LVS)

(LVF)

(SCDS)



**LCD Panel
(LVS)**



(LVF)



**AC Adapter
(RH)**



(TFU)



(ET/UT)



**Strobe Light
(NBI)**



Product Application - Game Console

CPU

(PBY)



Controller I/F

(NBI)

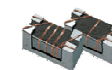


USB/1394/LAN/HDD Interface

(PBY)



(CMM)



Controller

(NBI)

(CMM)

(SLF)

(SCDS)

(LVS)

(RH)

(LVF)



Wireless LAN

(NBQ)

(CLH)

(CL)

(CS,LCN)

(BPF)

(Balun)



AC Adapter

(RH)

(TFU)

(ET/UT)



Graphic Processing

(MHCC)

(NBI,NBQ)



DC-DC Converter

(PBY)

(CMM)

(SCDS)



Blu-ray Disc/DVD

(BA)

(NBI)

(SQV)



Product Application - LCD TV

Tuner

(NBI, CL)



(CLH)



(SQV)



(CS, LCN)



DSP

(NBI,CL)



(BA)



(SQV)



(LVS)



(LVF)



USB/1394/HDMI Interface

(PBY)



(CMM)



AC Adapter (RH)



(TFU)



(ET/UT)



Clock (NBI)



LCD Back Lighting

(LVF)



(LVS)



(SCDS)



WiFi (MPB)



DC-DC Converter

(PBY)



(SCDS)



(CMM)



Audio

(LVS)



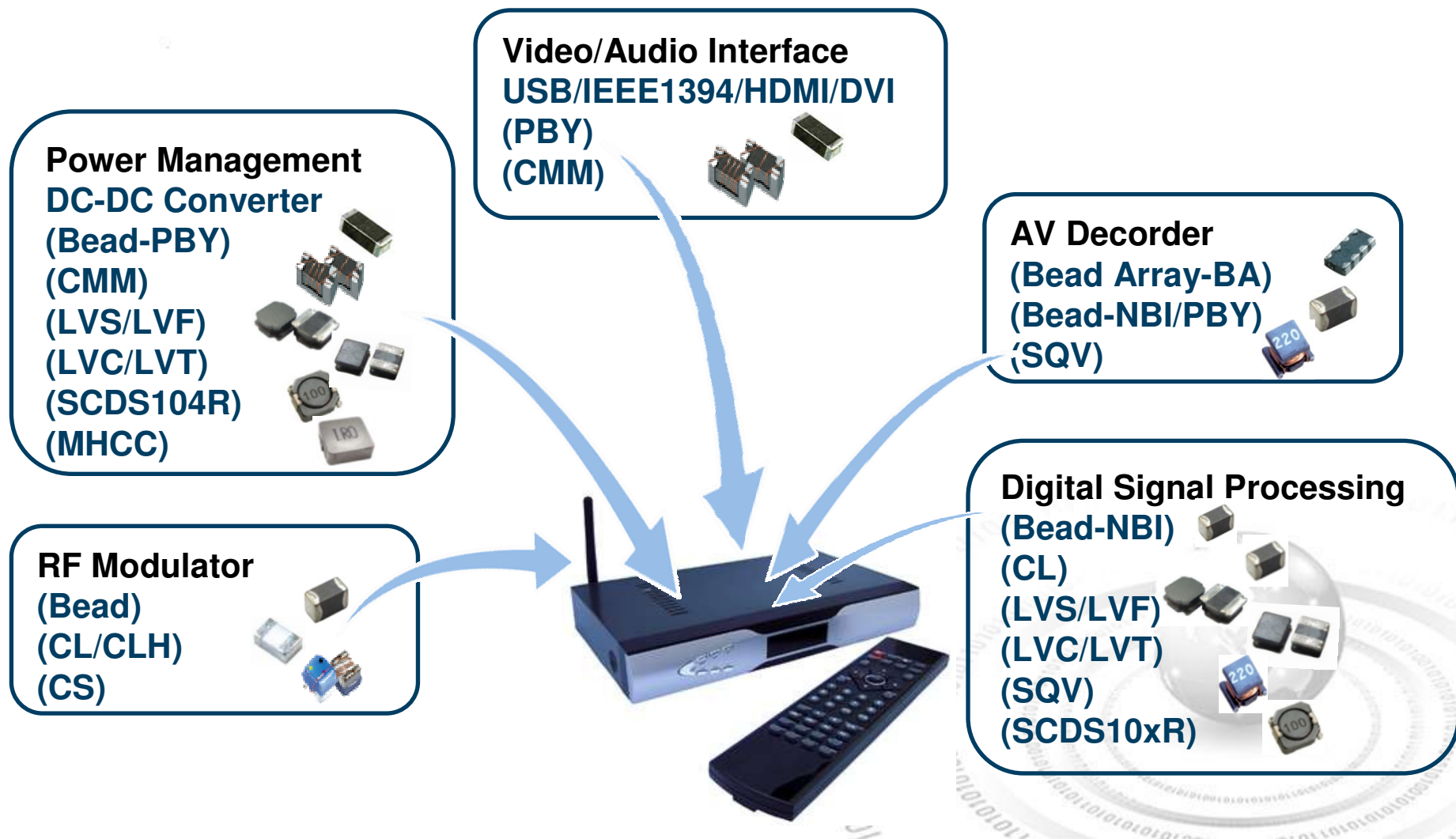
(LVF)



(SCDS)

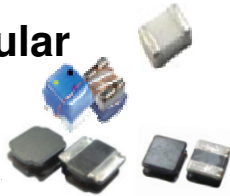


Product Application – Set Top Box

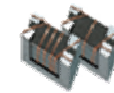


Product Application – Femtocell Base Station

Antenna
WiFi Cellular
(CLH)
(CS)
(LVS/LVF,



Network Interface
USB
(CMM)



RF Modulator
(Bead)
(CL/CLH)
(CS)



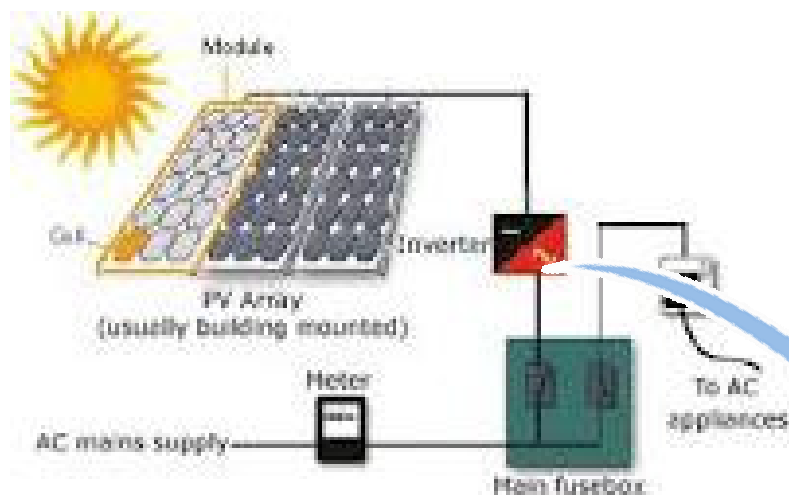
Baseband Processing
(Bead-NBI)
(CS)
(LVS/LVF)
(CMM)



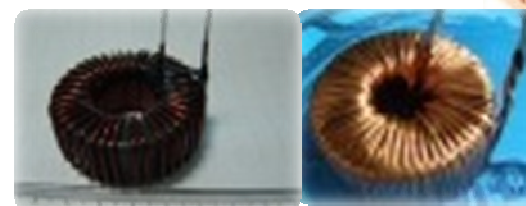
Power Management System
DC-DC Converter
(Bead-PB)
(SQV)
(LVS/LVF)
(SCD/SCDS)
(MHCC)
(DMI/CPU)



Product Application - Solar Inverter



DC-DC Converter
DC-AC Converter
(BC)



Product Application - Automotive

Electronic Control Units

(ECU for climate control, lighting, communication...)

Controller ASICS-Filtering

☑ AEC Q200

Power Supply-SMPS Buck

☑ AEC Q200

-EMI Filtering

☑ AEC Q200

-Switching Mode Power

☑ AEC Q200

-Air Flow Control

☑ AEC Q200

(Bead)
(MHCC)
(SCDS5D2x)



DC-DC Converter
(MHCC)
(LVS/LVF)
(SCDS5D2x)



☑ *Standard: AEC-Q200*

☑ *Soldering Temp.: JEDEC-202-C*

Product Application - Automotive

Safety & Amenity

HID Head-lighting
Ballast-EMI Filtering
LED Daylighting-Power Switch
-SMPS Buck/Boost
-Current Regulated

(Bead)
(MHCC)
(SL)
(LVS/LVF)
(MP)
(SLF06xx/07xx/10xx/12xx)
(CLH)
(CS/HQ)



ETC System
(Bead)
(CLH)
(CS/HQ)
(MP)
(SLF)
(SCDS)



Power Antenna
(Bead)
(CLH)
(CL)
(CS/HQ)



Keyless Entry
(Bead)
(CS/HQ)
(CL)
(NL)



Power Seat/Window
(Bead)
(CLH)
(CS/HQ)
(CL)



Air Conditioner
(Bead) (CL)



Application - Automotive

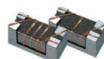
Car Entertainment Device

Audio/Stereo System

EMI Filtering
(Bead)



USB
(CMM)



Signal
(CS/CT/HQ/HC)



DC-DC Converter
(CLH)



(SCDS5D2x)



(SCDS6D2X)



(LVS/LVF)



(MHCC)



(TC)



(BC)



(BCB)



Navigation System

LCD Display/Power Supply Line
(Bead)
(CL)



DC-DC Converter/Power Supply Unit
(Bead)



(MP)



(SLF)



(SCDS6x)



(SCDS10x)



Product Application – Home Appliances

**AC Adapter
(RH)**

(ET/UT)

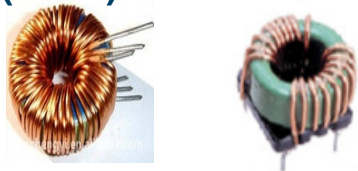
(TFU)



**Power Management
(SQV/SQC)
(LVS/LVF)
(SCD/SCDS)
(MHCC)
(DMI/CPU)
(SF)**



**DC-DC Converter
AC-DC Converter
(BC)
(BCB)**

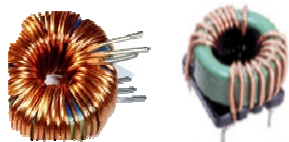


Product Application – LED Lighting

EMI Solution (Bead)
for Power
(SBK)
(PBY)
(UPB)



DC-DC Converter
AC-DC Converter
(BC)
(BCB/SBCB)



Power Management

(SQV/SQC)
(LVS/LVF)
(SCDS)
(MHCC)
(SL/PDR)





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Thank you!

CompoTEK

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