



2022 Q1 QBR Inductor Report

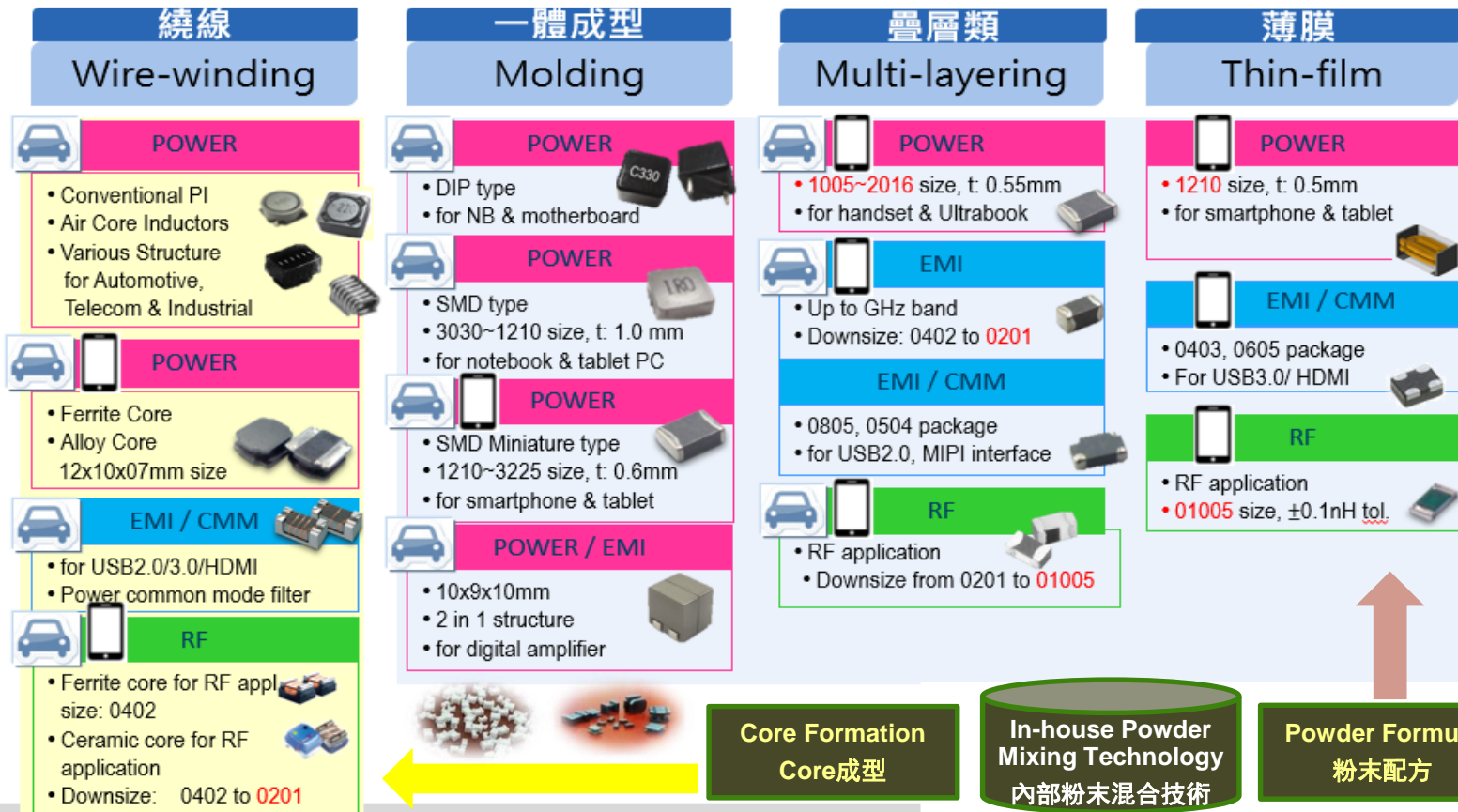
Jems&Arvin

2021/11/30

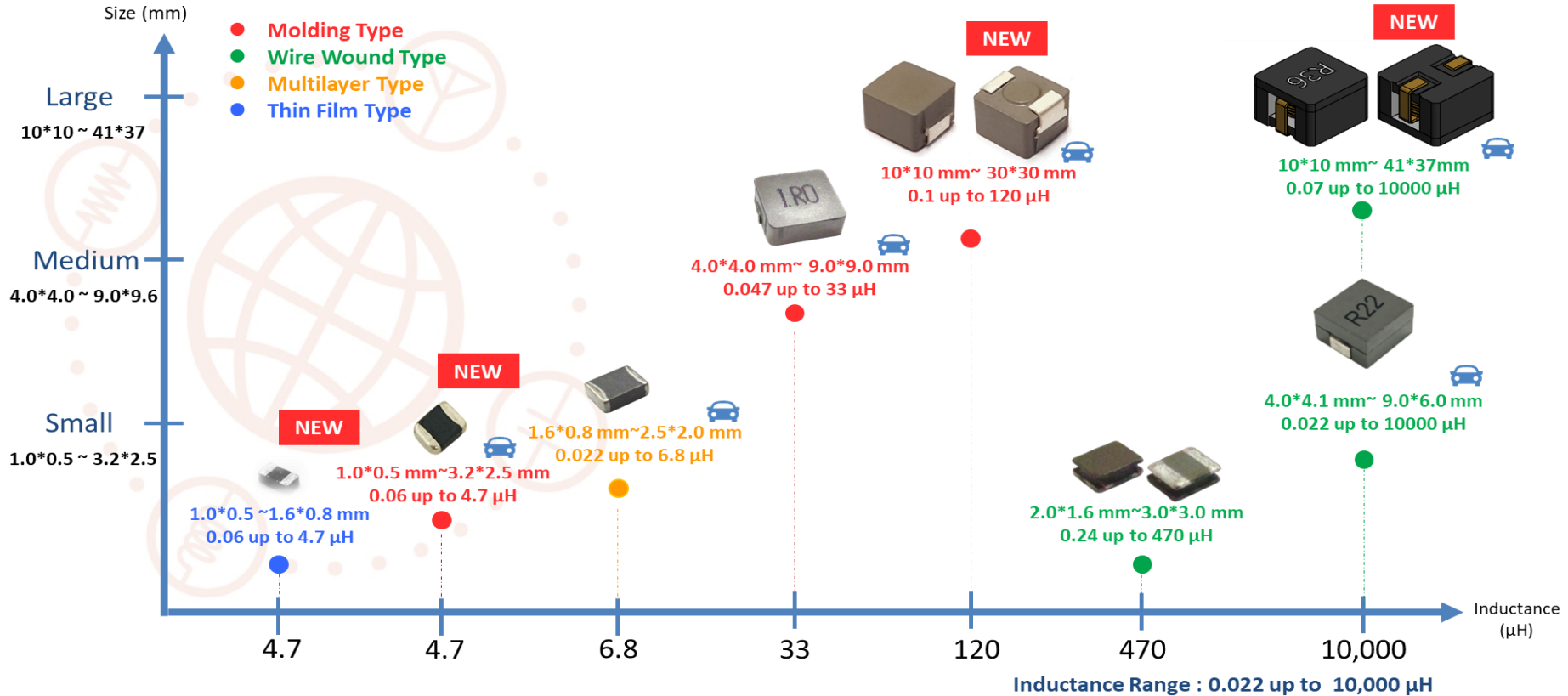
AGENDA

- ◆奇力新產品推介
- ◆重點推進的產業（成長引擎）
- ◆奇力新產品及應用說明
- ◆奇力新料號命名規則
- ◆奇力新電感產能

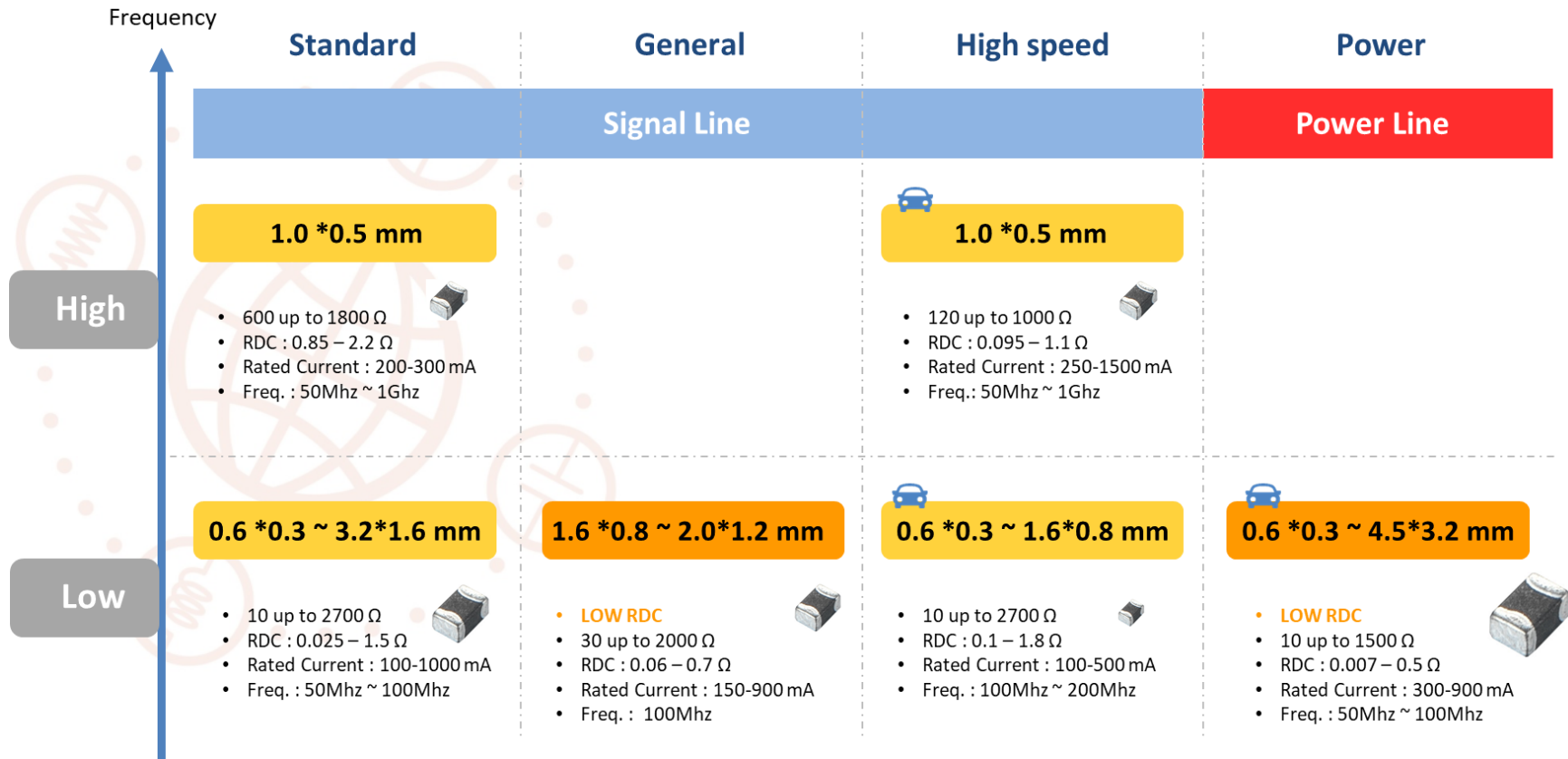
Total Solution Process



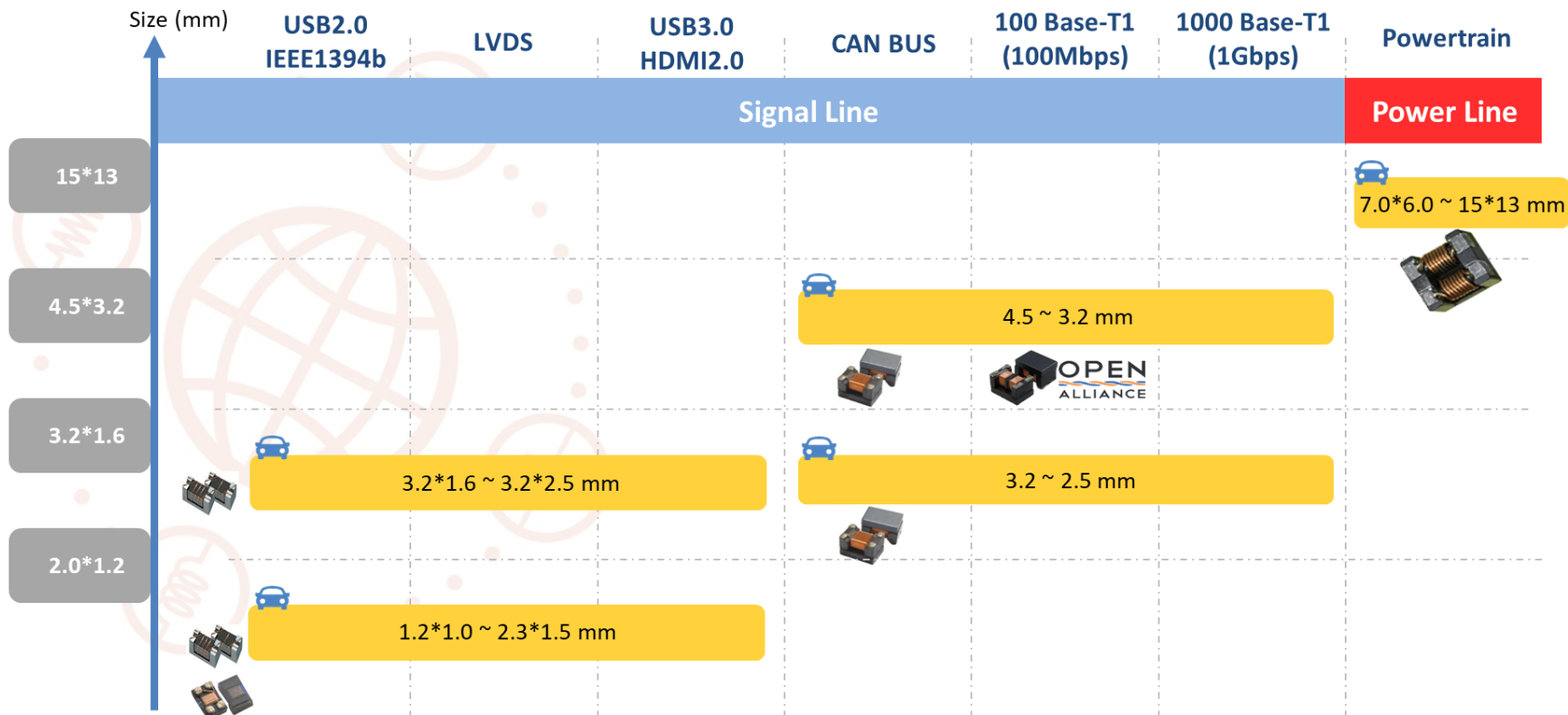
Power – Inductor Tech



EMI – Ferrite Bead Tech




















EMI – CMC Tech



 Automotive Grade

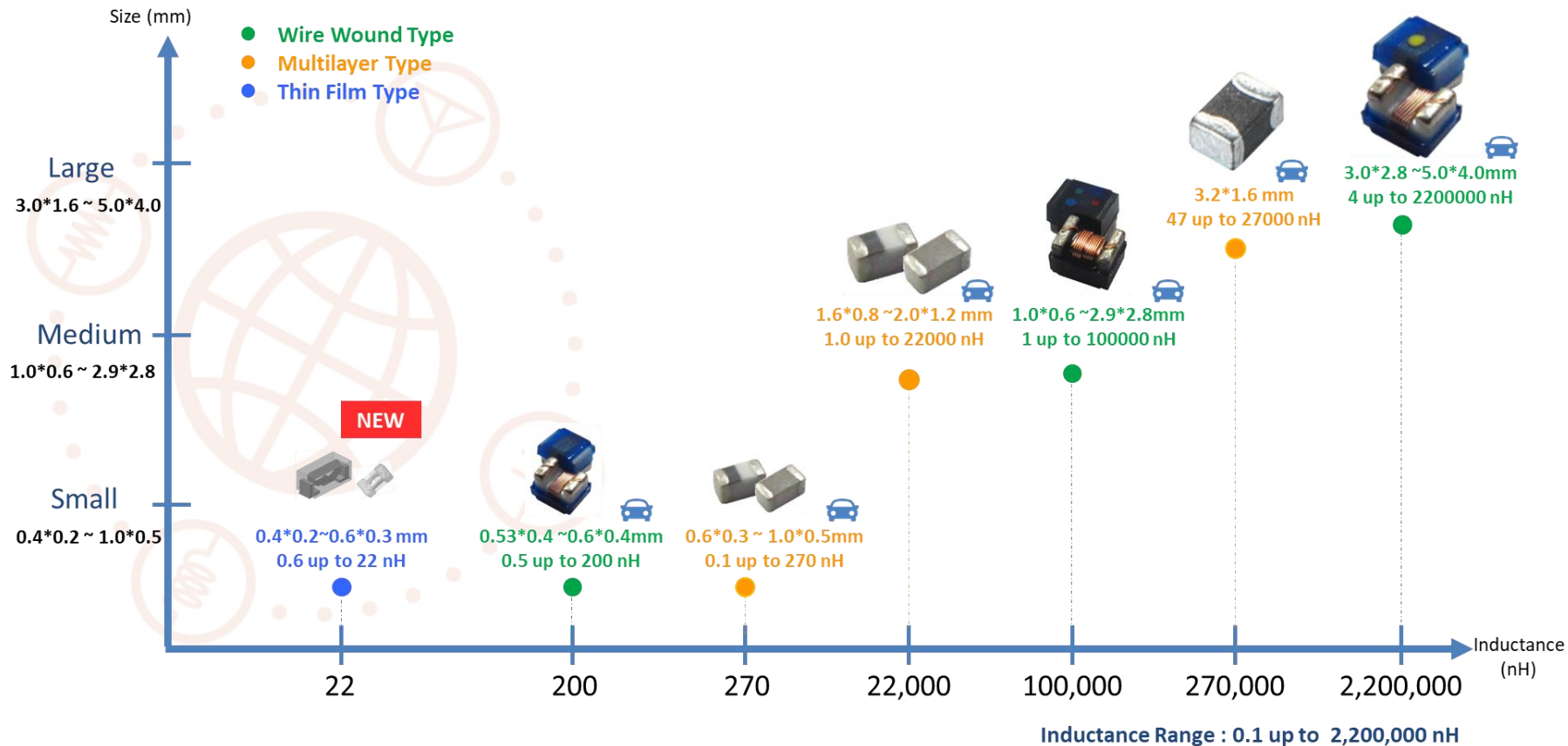
CMC Signal Line Selection Guide

Size (mm/inch)	Automotive Ethernet		CAN BUS		USB 2.0 IEEE1394b	LVDS	HDMI 2.0	USB3.1/ G1, G2		
	100 Base-T1	1000 Base-T1	Classical	FD						
Signal speed	100Mbps	1000Mbps	~8Mbps		480Mbps	~1.5GMps	6Gbps	10Gbps		
1.2 x 1.0 (1210/0504)	Not applicable				BWCU001210 		BWCU001210 			
1.6 x 0.8 (1608/0603)					BWCU001608 					
2.0 x 1.2 (2012/0805)					BWCU002012 		BWCU002012 		BWCU002012 	
2.3 x 1.5 (2315)					BWCU00231512 		BWCU003212 			
3.2 x 1.6 (3216/1206-3225/1210)					 AWCU003225	AWCU003225	 AWCU003325	 AWCU003325	BWCU003212 	BWCU003216 
4.5 x 3.2 (4532/1812)	 AWCU004532 		 AWCU004532							

General Grade

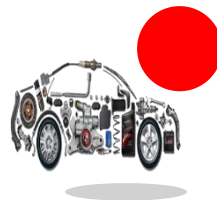
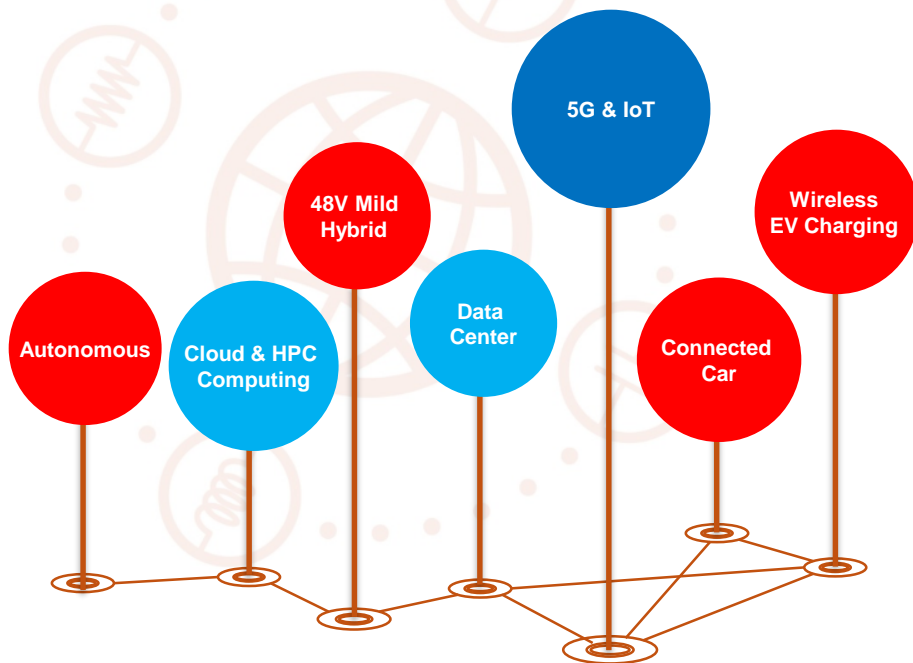
Automotive Grade 

RF – Inductor Tech



Chilisin Focus Segments

Market Trend.....



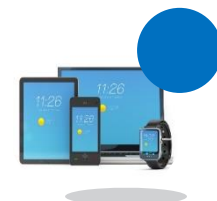
Automotive Electronics

- PHY (CMM)
- 48V mild hybrid
- ECU
- EV Charging
- Lighting
- Infotainment
- ADAS
- ...



Networking/Datacenter

- V-core (power bead)
- Memory (DDR5)
- WIFI 6
- NB-IOT
- 5G Base station
- Connected Car



Handheld/Wearable Devices

- 5G phone
- Watch
- Tablet
- Smart Speaker
- TWS
- Wireless Charging
- ...

Chilisin Solution For Automotive

標註五星：
為主推產品

车身电子Body Electronics

- RF Inductor
- Power Inductor
- EMI Bead
- ★ ➤ Common Mode Choke

通讯传输设备GPS/DVBT/BT/WiFi/FM/GSM

- RF Inductor

车联网Ethernet Phy

- RF Inductor
- Power Inductor
- EMI Bead
- ★ ➤ Common Mode Choke

Powertrain动力系统

- ★ ➤ Common Mode Choke
- Power Inductor

多媒体 Infotainment

- RF Inductor
- ★ ➤ Power Inductor
- EMI Bead
- ★ ➤ Common Mode Choke

ADAS驾驶辅助系统

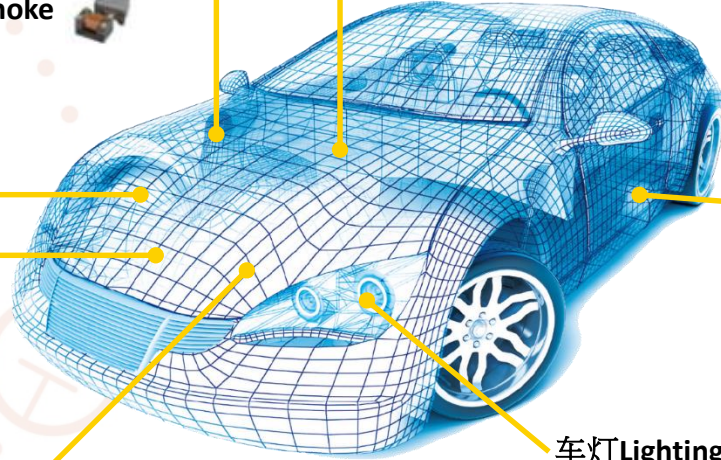
- Power Inductor
- RF Inductor
- EMI Bead
- Common Mode Choke

电脑控制模组ECU

- Power Inductor
- ★ ➤ Common Mode Choke

车灯Lighting

- ★ ➤ RF Inductor
- Power Inductor
- EMI Bead



Chilisin Solution For Server

標註五星：
為主推產品

DC-DC Converter ★

Power Inductor/Molding
(BMRx/BMCA) (BMQA) (BDCD/BDHE)



Power Inductor/Wire-Winding
(BPSD/BPSA/BPSV/BPSH/BPMx) ★

(BWVS/BWVF/BWMR)



**Power Inductor
Multilayer**
(BKPE)



48v 2-STAGE SYSTEM ★
(LC TANK)

Power Inductor/Wire-Winding
(BPMI)

HDMI/DVI/Analog RGB

EMI/CMM ★
(BWCU)



V core / CPU ★

Power Inductor/Wire-Winding
(BPSG/BPSW/BPSV)



EMI Filter for Power

EMI/Bead
(BBPY/BBUP/BBHV)



EMI Filter for Signal

**RF Inductor
Multilayer** (BSCL)



RF Inductor / Wire-Winding
(BWCS) (BWNL/BWNC)



**USB3.0/IEEE1394/
LAN Interface** ★

EMI/CMM
(BWCU)



Chilisin Solution For TWS



功能 Function	品牌 Brand	品名PN/ 系列 Series
耳機主控芯片 (舉例)	絡達	AB1562A
射頻電路匹配	CHILISIN	BSCQ000603031N2B00 
耳機濾波/升降壓	CHILISIN	BKPE001608DZ2R2MA6 (BDHE00160808系列) 低階版會選用繞線 BWLD/LS1608/LD2417 
充電盒 Boost	CHILISIN	BWVF003030152R2M00 

Chilisin Solution For phone

標註五星：
為主推產品

RF Circuit (LTE/GPS/4、5G/WiFi/BT)

Multilayer RF Inductor / Bead

(BWCM/BWCS) (BSCQ) (BSPQ/HQ)



(BBNQ/BBSJ/BBFJ)



Camera Unit

Multilayer Bead

(BSCL, BBSY, BKPB)



Back Lighting

Wire-Winding Inductor

(BWMF)



(BWMR)



奇力新有全球唯2（奇力新、村田）的超高Q系列BSPQ，手機從高端機種會逐步替換普通高頻電感。

DC-DC Converter

Molding Power Inductor ★

(BDHE/BDCE)



Wire-Winding Power Inductor

(BWMx)



Analog TV & Audio Circuit

Multilayer

(BSCQ) (BSPQ/HQ)



Wire-Winding RF Inductor

(BWCS/BWCM)



(BWLS)

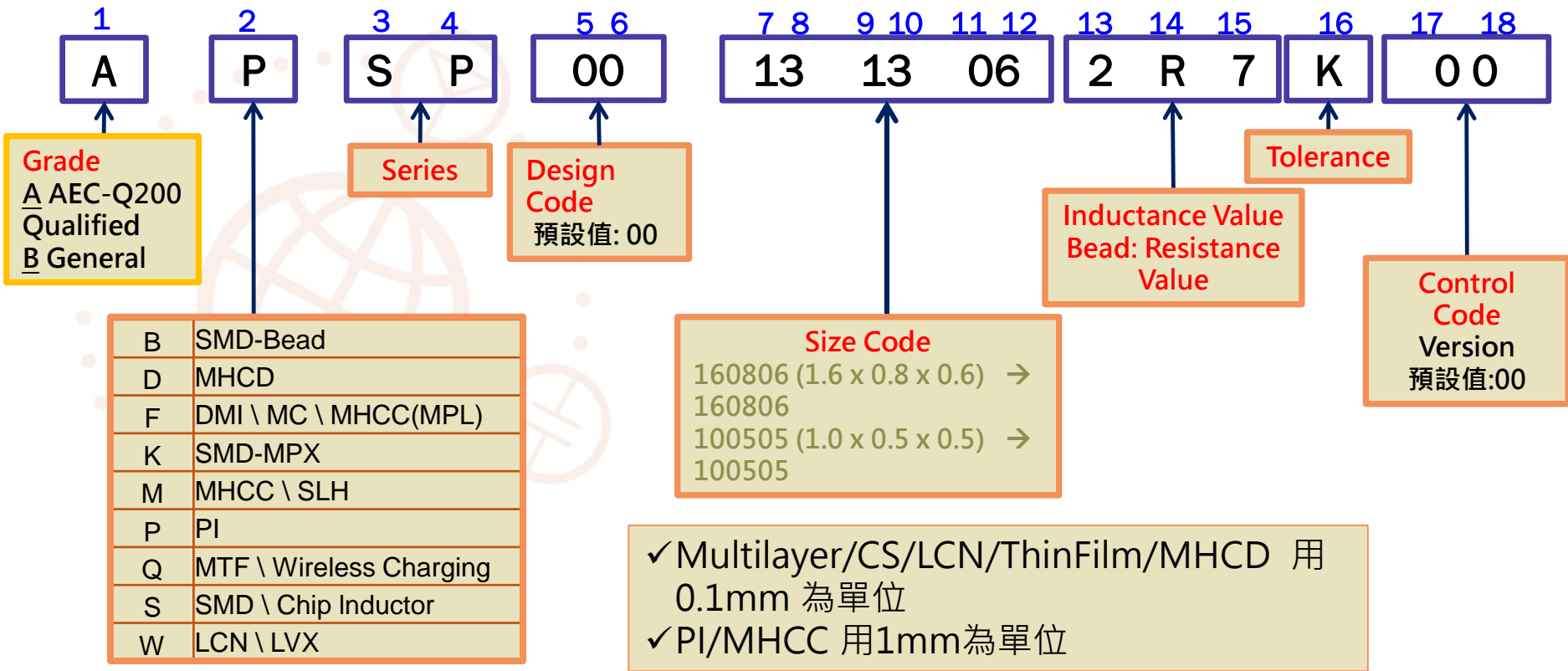


Wire-Winding EMI Filter






(BWCU)



奇力新電感料號命名規則



Capacity Overview

Category	Product Type	2022 Capacity	Unit
Inductor	Multilayer 	3,000	Mpcs /M
	Wire-winding 	390	
	Molding 	1,050	
	Thin Film 	250	
	Through-Hole 	100	



Thank you!