

Automotive  
Product Standards



# Automotive Inductor Selector Guide

## Foreword

### About GOTREND TECHNOLOGY

GOTREND was established in the year 2000 as a professional inductor design house, manufacturer and trading company. We provide high quality inductor solutions for both traditional and smart technology trends in the Wireless Charging, Smart Living, Industry Automation, Communication, Intelligent Automotive applications.

Established client application designs with GOTREND products inside include esteemed global brand names such as Apple, SONY, Microsoft, Toshiba, etc. Superior quality products for the automotive and various application markets are what we offer, in terms of excellent custom design flexibility and in the meantime conformance to specifications and product quality standards including AEC-Q200 and TS16949.

We are able to create unique specification products that cater to our client's special requirements. GOTREND was able to produce industry first GTSD special inductor package series in the past that had been used in a wide range of applications including both consumer and industrial applications in Asia.

Green manufacturing is our belief and All GOTREND products including raw materials, spare parts, solvent, consumables, packing materials, as well as production process are in conformity with WEEE and RoHS compliance. Our plants are located in China, with direct access to Asia's speed prototyping chain, and provide fast manufacturing services.

We go further, in supporting our customer needs, contributing to a smarter future of intelligent technologies, and a better living world for everyone!



**Robin Tsai**  
General Manager

### Inductors for Intelligent Automobiles

<b>1</b>	<b>Foreword</b>	
	<b>GOTREND Company Introduction</b>	02
<b>2</b>	<b>Index page</b>	03
<b>3</b>	<b>Feature Automotive Product Series</b>	04
<b>4</b>	<b>Automotive Application Component Recommendation Guide</b>	06
<b>5</b>	<b>Automotive Application Component Specification List</b>	08
	1. Wireless Charging	08
	2. Multimedia/Infotainment	08
	3. Bluetooth Device	09
	4. Battery Control Unit	09
	5. Car Lighting	09
	6. ABS Control Unit	10
	7. Parking Sensors	10
	8. TPMS Tire Pressure Monitoring System	11
	9. ETC System	11
	10. Keyless Entry / Security	11

# 3

## Feature Automotive Product Series



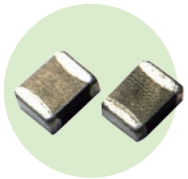
### GBD SERIES

Description : Multilayer Ferrite Chip Bead  
 SIZE : 0.6 x 0.3 x 0.3 ~ 2.0 x 1.25 x 0.9 mm  
 Z : 6.0 ~ 2700.0 Ohm  
 DCR : 0.01 ~ 2.0 Ohm  
 Automotive applications : Bluetooth Device  
 ETC System  
 ABS Control Unit  
 Tire Monitoring  
 Park Sensor



### GBL SERIES

Description : Multilayer Ferrite Chip Inductor  
 SIZE : 1.0 x 0.5 x 0.5 ~ 3.2 x 1.6 x 1.1 mm  
 L : 0.01 ~ 47.0 uH  
 DCR : 0.15 ~ 3.4 Ohm  
 Automotive applications : Bluetooth Device  
 ETC System  
 ABS Control Unit  
 Tire Monitoring



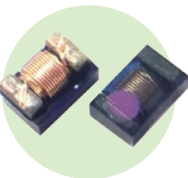
### GBLH SERIES

Description : High Current Multilayer Ferrite Chip Inductor  
 SIZE : 1.6 x 0.8 x 0.8 ~ 2.5 x 2.0 x 0.9 mm  
 L : 0.22 ~ 10.0 uH  
 DCR : 0.06 ~ 2.1 Ohm  
 Automotive applications : Bluetooth Device



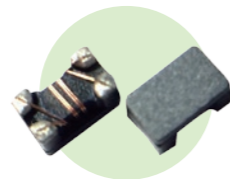
### GTH SERIES

Description : High Frequency Wound Inductor  
 SIZE : 1.27 x 0.76 x 0.66 ~ 2.29 x 1.73 x 1.52 mm  
 L : 1.0 ~ 10000.0 nH  
 DCR : 0.03 ~ 8.0 Ohm  
 Automotive applications : Multimedia



### GNLC SERIES

Description : Molding Wound Inductor - IDC Enhanced  
 SIZE : 1.8 x 1.2 x 1.0 ~ 3.6 x 2.9 x 2.5 mm  
 L : 0.22 ~ 1000.0 uH  
 DCR : 0.09 ~ 46.0 Ohm  
 Automotive applications : Bluetooth Device  
 ETC System  
 Tire Monitoring  
 Park Sensor



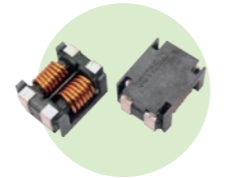
### GTHW SERIES

Description : Common Mode Filter  
 SIZE : 2.0 x 1.2 x 1.2 ~ 4.5 x 3.2 x 2.8 mm  
 Z : 67.0 ~ 2000.0 Ohm  
 DCR : 0.25 ~ 3.0 Ohm  
 Automotive applications : Multimedia  
 Battery Control Unit  
 ABS Control Unit  
 Tire Monitoring



### GDLW SERIES

Description : Chip Common Mode Choke Coil  
 SIZE : 5.0 x 4.8 x 2.5 ~ 5.0 x 4.8 x 4.8 mm  
 Z : 100 ~ 1400 Ohm  
 DCR : 0.09 ~ 0.4 Ohm  
 Automotive applications : Multimedia  
 Wireless Charging



### GSCM SERIES

Description : SMD Common Mode Choke  
 SIZE : 9.0 x 7.0 x 4.5 mm  
 Z : 700 Ohm  
 DCR : 10.0 m Ohm  
 Automotive applications : Multimedia  
 Wireless Charging



### GW SERIES

Description : Wireless Charging Coils  
 SIZE : 39.5 x 39.5 x 5.5 ~ 106.0 x 53.0 x 4.0 mm  
 L : 6.6 ~ 12.5 uH  
 DCR : 0.045 ~ 0.06 Ohm  
 Automotive applications : Wireless Charging



### GTX-SA314 SERIES

Description : SMD Transformer  
 SIZE : 14.0 x 13.0 x 3.8 ~ 15.0 x 14.0 x 3.8 mm  
 L : 2.47 ~ 7.2 mH  
 DCR : 78.0 ~ 190.0 Ohm  
 Automotive applications : Wireless Charging



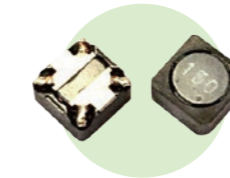
### GSSR SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 3.7 x 3.7 x 1.8 ~ 6.7 x 6.7 x 4.1 mm  
 L : 1.0 ~ 1000.0 uH  
 DCR : 0.014 ~ 5.7 Ohm  
 Automotive applications : Battery Control Unit  
 ETC System



### GSSR2 SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 10.2 x 10.0 x 3.8 mm  
 L : 0.33 ~ 820.0 uH  
 DCR : 0.0042 ~ 2.6 Ohm  
 Automotive applications : Multimedia



### GSDH/GSDK SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 5.2 x 5.2 x 2.0 ~ 5.2 x 5.2 x 3.0 mm  
 L : 1.2 ~ 680.0 uH  
 DCR : 0.02 ~ 9.638 Ohm  
 Automotive applications : Battery Control Unit  
 Multimedia



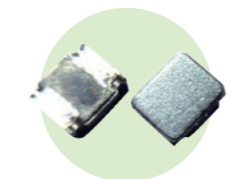
### GSDRH SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 6.3 x 6.3 x 3.0 ~ 12.0 x 12.0 x 9.0 mm  
 L : 1.0 ~ 5500.0 uH  
 DCR : 0.005 ~ 9.44 Ohm  
 Automotive applications : Car Lighting  
 Multimedia



### GSDRK SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 7.8 x 7.8 x 4.5 ~ 12.5 x 12.5 x 8.0 mm  
 L : 0.68 ~ 10000.0 uH  
 DCR : 0.0045 ~ 63.8 Ohm  
 Automotive applications : Car Lighting  
 Multimedia



### GNR SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 2.6 x 2.1 x 1.0 ~ 8.2 x 8.2 x 4.0 mm  
 L : 0.24 ~ 330.0 uH  
 DCR : 0.006 ~ 4.2 Ohm  
 Automotive applications : Bluetooth Device  
 Multimedia  
 ETC System  
 Park Sensor



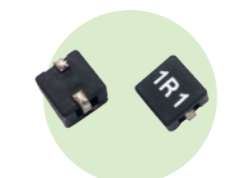
### GNRM SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 2.0 x 1.6 x 1.0 ~ 2.5 x 2.0 x 1.0 mm  
 L : 0.24 ~ 2.2 uH  
 DCR : 0.022 ~ 0.11 Ohm  
 Automotive applications : Bluetooth Device  
 Multimedia  
 ETC System  
 Park Sensor



### GSTC/GSTD SERIES

Description : High Current Inductor  
 SIZE : 2.5 x 2.0 x 1.2 ~ 13.5 x 12.8 x 6.3 mm  
 L : 0.1 ~ 100.0 uH  
 DCR : 0.47 ~ 250.0 m Ohm  
 Automotive applications : Multimedia



### GSTF SERIES

Description : High Current Inductor  
 SIZE : 7.0 x 6.8 x 4.5 ~ 13.7 x 13.2 x 6.5 mm  
 L : 1.2 ~ 6.5 uH  
 DCR : 1.9 ~ 22.0 m Ohm  
 Automotive applications : Multimedia

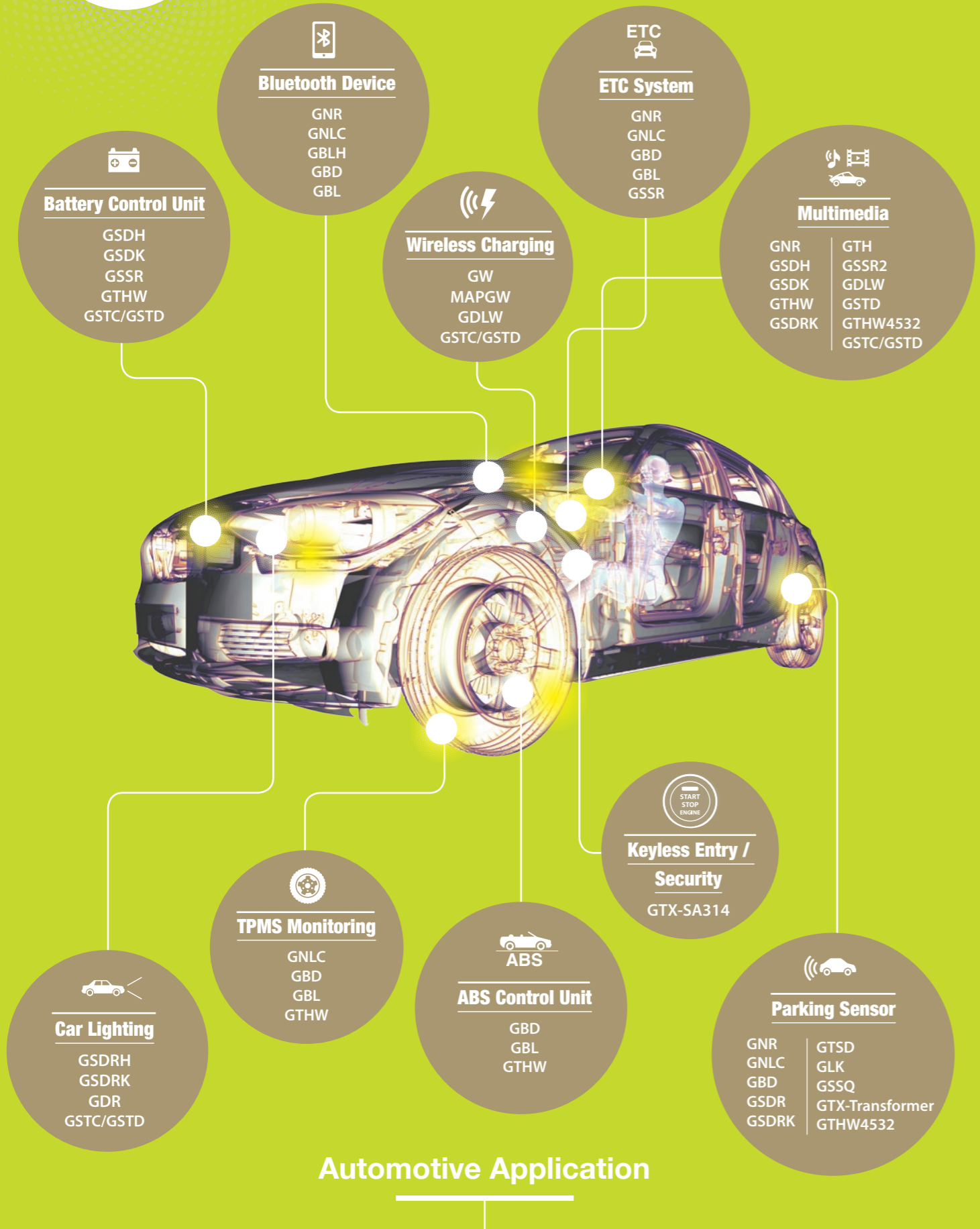


### GSDRM SERIES

Description : SMD Shielded Power Inductor  
 SIZE : 5.7 x 5.7 x 3.0 ~ 10.0 x 10.0 x 4.0 mm  
 L : 1.0 ~ 1000.0 uH  
 DCR : 0.01 ~ 3.2 Ohm  
 Automotive applications : Car Lighting  
 Multimedia

# 4

## Automotive Application Component Recommendation Guide



Automotive Application



Recommendation Guide

Part Number Series	Wireless Charging	Bluetooth Device	Battery Control Unit	Multimedia	ETC System	Car Lighting	ABS Control Unit	TPMS Tire Monitoring	Parking Sensor	Keyless/ Security
GNR	-	●	-	●	●	-	-	-	●	-
GNLC	-	●	-	-	●	-	-	●	●	-
GBLH	-	●	-	-	-	-	-	-	-	-
GBD	-	●	-	-	●	-	●	●	●	-
GBL	-	●	-	-	●	-	●	●	-	-
GSDH	-	-	●	●	-	-	-	-	-	-
GSDK	-	-	●	●	-	-	-	-	-	-
GSSR	-	-	●	-	●	-	-	-	-	-
GTHW	-	-	●	●	-	-	●	●	-	-
GSDRH	-	-	-	●	-	●	-	-	-	-
GSDRK	-	-	-	●	-	●	-	-	-	-
GTH	-	-	-	●	-	-	-	-	-	-
GSSR2	-	-	-	●	-	-	-	-	-	-
GDR	-	-	-	-	-	●	-	-	-	-
GSDR	-	-	-	-	-	-	-	-	●	-
GTSD	-	-	-	-	-	-	-	-	●	-
GLK	-	-	-	-	-	-	-	-	●	-
GSSQ	-	-	-	-	-	-	-	-	●	-
GDLW	●	-	-	●	-	-	-	-	-	-
GSTD	-	-	-	●	-	-	-	-	-	-
GTHW4532	-	-	●	●	-	-	●	-	-	-
GTX-SA314	-	-	-	-	-	-	-	-	-	●
GW	●	-	-	-	-	-	-	-	-	-

# 5

## Automotive Application Component Specification List



### 5.1 Wireless Charging

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GW1065705PT-Series	DIP/Unshield	106.5x57.5	3.4	11.5	K	5200	-
GW4006PT-Series	DIP/Unshield	39.5x39.5	5.5	15.3	K	-	-
MAPGW10056-Series	Flexible Ferrite Sheet	100x56	0.6~0.9	-	-	-	-
MAPGW10053-Series	Flexible Ferrite Sheet	100x53	0.6~0.9	-	-	-	-
MAPGW10653-Series	Flexible Ferrite Sheet	106x53	1.1	-	-	-	-
GDLW0504P - 200N	SMD/Shield	4.8x5.0	4.8	-	-	-	5000
GDLW0504P - 600NS	SMD/Shield	4.8x5.0	4.8	-	-	-	4500



### 5.2 Multimedia / Infotainment

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GNR2512PA-2R2	SMD/Shield	2.2x2.7	1.2	2.2	M	-	2200
GNR2512PL-4R7	SMD/Shield	2.2x2.7	1.2	4.7	M	-	1200
GNR3010P-2R2	SMD/Shield	3.1x3.1	1.0	2.2	M	-	1450
GNR3015P-1R0	SMD/Shield	3.1x3.1	1.5	1	M/N	-	2350
GNR3015P-2R2	SMD/Shield	3.1x3.1	1.5	2.2	M	-	1800
GNR4012PM-6R8	SMD/Shield	4.2x4.2	1.2	6.8	M	-	1300
GNR6020P-6R8	SMD/Shield	6.0x6.0	2.0	6.8	M	-	1800
GNR8040P-2R2	SMD/Shield	8.0x8.0	4.0	2.2	N	-	6300
GNR8040P-100	SMD/Shield	8.0x8.0	4.0	10	M	-	3100
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	-	-	1000	-
GTHW2012P-900T	SMD/Shield	2.0x1.2	1.2	-	-	400	-
GTHW3216P-900T	SMD/Shield	3.2x1.6	1.6	-	-	370	-
GSDRK74P-4R7	SMD/Shield	7.8x7.8	4.5	4.7	M / N	5200	-
GSDRK74P-100	SMD/Shield	7.8x7.8	4.5	10	M	4000	-
GSDRK74P-150	SMD/Shield	7.8x7.8	4.5	15	M	3500	-
GTH1608P-1N8J	SMD/Unshield	1.80x1.12	1.02	0.0018	G / J / K	700	-
GSSR2-104P-100	SMD/Shield	10.2x10.0	3.8	10	N	3800	-
GSTD4012PJ-1R0M	SMD/Shield	4.5x4.0	1.1	1.00	-	-	4800
GSTD4012PM-1R0M	SMD/Shield	4.5x4.0	1.1	1.00	-	-	4200
GSTD4020PJ-1R0M	SMD/Shield	4.5x4.0	1.8	1.00	-	-	5000
GSTD4020PJ-2R2M	SMD/Shield	4.5x4.0	1.8	2.20	-	-	3900
GSTD6030PE-1R0M	SMD/Shield	7.1x6.6	2.8	1.00	-	-	11000
GSTD6030PE-3R3M	SMD/Shield	7.1x6.6	2.8	3.30	-	-	6000
GSTD6030PE-4R7M	SMD/Shield	7.1x6.6	2.8	4.70	-	-	5500
GSTD6030PL-100M	SMD/Shield	7.1x6.6	2.8	10.00	-	-	4000



### 5.3 Bluetooth Device

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GNR2512PA-2R2	SMD/Shield	2.2x2.7	1.2	2.2	M	-	2200
GNR2512PL-4R7	SMD/Shield	2.2x2.7	1.2	4.7	M	-	1200
GNR3010P-2R2	SMD/Shield	3.1x3.1	1.0	2.2	M	-	1450
GNR3015P-1R0	SMD/Shield	3.1x3.1	1.5	1	M/N	-	2350
GNR3015P-2R2	SMD/Shield	3.1x3.1	1.5	2.2	M	-	1800
GNR4012PM-6R8	SMD/Shield	4.2x4.2	1.2	6.8	M	-	1300
GNR6020P-6R8	SMD/Shield	6.0x6.0	2.0	6.8	M	-	1800
GNR8040P-2R2	SMD/Shield	8.0x8.0	4.0	2.2	N	-	6300
GNR8040P-100	SMD/Shield	8.0x8.0	4.0	10	M	-	3100
GNLC2012PR-2R2	SMD/Unshield	2.4x1.65	1.2	2.2	J/K/M	-	1040
GNLC2012PR-3R3	SMD/Unshield	2.4x1.65	1.2	3.3	J/K/M	-	1020
GNLC2012PR-4R7	SMD/Unshield	2.4x1.65	1.2	4.7	J/K/M	-	840
GNLC2012PR-220	SMD/Unshield	2.4x1.65	1.2	22	J/K/M	-	340
GNLC1610P-150K-AEC	SMD/Unshield	1.8x1.2	1.0	15	K	-	170
GBLH201209P-1R0M	SMD/Shield	2.0x1.25	0.9	1.00	M	800	-
GBLH252010P-4R7M	SMD/Shield	2.5x2.0	0.9	4.70	M	1100	-
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	-	-	1000	-



### 5.4 Battery Control Unit

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)
GSSR43P-2R2	SMD/Shield	4.7x4.7	3.0	2.2	M	2040
GSSR43P-3R3	SMD/Shield	4.7x4.7	3.0	3.3	M	1570
GSSR64P-100	SMD/Shield	6.7x6.7	4.1	10	M	2000
GTHW2012P-900T	SMD/Shield	2.0x1.2	1.2	-	M/N	400
GTHW3216P-900T	SMD/Shield	3.2x1.6	1.6	2.2	M	370



### 5.5 Car Lighting

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)
GSDRK74P-4R7	SMD/Shield	7.8x7.8	4.5	4.7	M / N	5200
GSDRK74P-100	SMD/Shield	7.8x7.8	4.5	10	M	4000
GSDRK74P-150	SMD/Shield	7.8x7.8	4.5	15	M	3500

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# 5

## Automotive Application Component Specification List



### 5.6 ABS Control Unit

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Irms Max. (mA)
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	1000
GTHW2012P- 900T	SMD/Shield	2.0x1.2	1.2	400
GTHW3216P- 900T	SMD/Shield	3.2x1.6	1.6	370



### 5.7 Parking Sensors

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GNR2512PA-2R2	SMD/Shield	2.2x2.7	1.2	2.2	M	–	2200
GNR2512PL-4R7	SMD/Shield	2.2x2.7	1.2	4.7	M	–	1200
GNR3010P-2R2	SMD/Shield	3.1x3.1	1.0	2.2	M	–	1450
GNR3015P-1R0	SMD/Shield	3.1x3.1	1.5	1	M/N	–	2350
GNR3015P-2R2	SMD/Shield	3.1x3.1	1.5	2.2	M	–	1800
GNR4012PM-6R8	SMD/Shield	4.2x4.2	1.2	6.8	M	–	1300
GNR6020P-6R8	SMD/Shield	6.0x6.0	2.0	6.8	M	–	1800
GNR8040P-2R2	SMD/Shield	8.0x8.0	4.0	2.2	N	–	6300
GNR8040P-100	SMD/Shield	8.0x8.0	4.0	10	M	–	3100
GNLC2012PR-2R2	SMD/Unshield	2.4x1.65	1.2	2.2	J/K/M	–	1040
GNLC2012PR-3R3	SMD/Unshield	2.4x1.65	1.2	3.3	J/K/M	–	1020
GNLC2012PR-4R7	SMD/Unshield	2.4x1.65	1.2	4.7	J/K/M	–	840
GNLC2012PR-220	SMD/Unshield	2.4x1.65	1.2	22	J/K/M	–	340
GNLC1610P-150K-AEC	SMD/Unshield	1.8x1.2	1.0	15	K	–	170
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	–	–	1000	–
GSDR32P-1R0	SMD/Unshield	3.5x3.0	2	1.0	M	–	–
GSDR32P-2R2	SMD/Unshield	3.5x3.0	2	2.2	M	–	–
GSDR32P-4R7	SMD/Unshield	3.5x3.0	2	4.7	M	–	–
GSDR32P-6R8	SMD/Unshield	3.5x3.0	2	6.8	M	–	–
GSDR43P-100	SMD/Unshield	4.5x4.0	3.2	10	M	–	–
GSDR53P-4R7	SMD/Unshield	5.8x5.2	3.5	4.7	M	–	–
GSDR53P-150	SMD/Unshield	5.8x5.2	3.5	15	M	–	–
GTSD32P-2R2	SMD/Shield	3.85x3.85	1.80	2.20	M / N	–	–
GTSD32P-3R3	SMD/Shield	3.85x3.85	1.80	3.30	M / N	–	–
GTSD32P-4R7	SMD/Shield	3.85x3.85	1.80	4.70	M / N	–	–
GTSD53P-3R3	SMD/Shield	5.00x5.00	3.00	3.30	M / N	–	–
GTSD53P-4R7	SMD/Shield	5.00x5.00	3.00	4.70	M / N	–	–
GTSD53P-6R8	SMD/Shield	5.00x5.00	3.00	6.80	M / N	–	–
GTSD53P-100	SMD/Shield	5.00x5.00	3.00	10	M / N	–	–



### 5.8 TPMS Tire Pressure Monitoring System

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GNLC2012PR-2R2	SMD/Unshield	2.4x1.65	1.2	2.2	J/K/M	–	1040
GNLC2012PR-3R3	SMD/Unshield	2.4x1.65	1.2	3.3	J/K/M	–	1020
GNLC2012PR-4R7	SMD/Unshield	2.4x1.65	1.2	4.7	J/K/M	–	840
GNLC2012PR-220	SMD/Unshield	2.4x1.65	1.2	22	J/K/M	–	340
GNLC1610P-150K-AEC	SMD/Unshield	1.8x1.2	1.0	15	K	–	170
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	–	–	1000	–
GTHW2012P- 900T	SMD/Shield	2.0x1.2	1.2	–	–	400	–
GTHW3216P- 900T	SMD/Shield	3.2x1.6	1.6	2.2	N	370	6300



### 5.9 ETC System

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Tolerance	Irms Max. (mA)	Irms Typ. (mA)
GNR2512PA-2R2	SMD/Shield	2.2x2.7	1.2	2.2	M	–	2200
GNR2512PL-4R7	SMD/Shield	2.2x2.7	1.2	4.7	M	–	1200
GNR3010P-2R2	SMD/Shield	3.1x3.1	1.0	2.2	M	–	1450
GNR3015P-1R0	SMD/Shield	3.1x3.1	1.5	1	M/N	–	2350
GNR3015P-2R2	SMD/Shield	3.1x3.1	1.5	2.2	M	–	1800
GNR4012PM-6R8	SMD/Shield	4.2x4.2	1.2	6.8	M	–	1300
GNR6020P-6R8	SMD/Shield	6.0x6.0	2.0	6.8	M	–	1800
GNR8040P-2R2	SMD/Shield	8.0x8.0	4.0	2.2	N	–	6300
GNR8040P-100	SMD/Shield	8.0x8.0	4.0	10	M	–	3100
GNLC2012PR-2R2	SMD/Unshield	2.4x1.65	1.2	2.2	J/K/M	–	1040
GNLC2012PR-3R3	SMD/Unshield	2.4x1.65	1.2	3.3	J/K/M	–	1020
GNLC2012PR-4R7	SMD/Unshield	2.4x1.65	1.2	4.7	J/K/M	–	840
GNLC2012PR-220	SMD/Unshield	2.4x1.65	1.2	22	J/K/M	–	340
GNLC1610P-150K-AEC	SMD/Unshield	1.8x1.2	1.0	15	K	–	170
GBD160808PGH601N	SMD/Shield	1.6x0.8	0.8	–	–	1000	–
GSSR43P-2R2	SMD/Shield	4.7x4.7	3.0	2.2	–	2040	–
GSSR43P-3R3	SMD/Shield	4.7x4.7	3.0	3.3	–	1570	–
GSSR64P-100	SMD/Shield	6.7x6.7	4.1	10	–	2000	–



### 5.10 Keyless Entry / Security

Part Number	Package Family/Type	Package Size/ L(mm) x W(mm)	Package Size/ Height(mm)	Inductance L(μH)	Q Typ.	SRF Typ. (KHz)	RDC Max. (Ohm)
GTX-SA314-472J	SMD/Unshield	14.0x13.0	3.8	4.77	28.0	380	108
GTX-SA314-722J	SMD/Unshield	14.0x13.0	3.8	7.2	30.0	330	133

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