About Viking

Viking Product Overview

Viking Tech, is an advanced technology passive component manufacturer, offering resistors include thin film/ precision / MELF/ special components, capacitors and inductors in different technical functions with exceptional quality and service.

Quality System

Standard Registration

IATF16949
ISO9001
ISO14001
*ISO13485

For More

REACH
VDA6.3

RoHS COMPLIANT

Core Technology

Wide Range of Various Passive Components

REACH for Excellence

Proficient Research and Development

Quality Assurance

Customer Satisfaction

Innovation

Improvement

Business Philosophy

Nominal Resistance / Capacitance

E1	100																							
E3	100								220								470							
E6	100				150				220				330				470				680			
E12	100	120	150	180	220	270	330	390	470	560	680													
E24	100	110	120	130	150	160	180	200	220	240	270	300	330	360	390	430	470	510	560	620	680	750	820	910
E96	100	102	105	107	110	113	115	118	121	124	127	130	133	137	140	143	147	150	154	158	162	165	169	174
	178	182	187	191	196	200	205	210	215	221	226	232	237	243	249	255	261	267	274	280	287	294	301	309
	316	324	332	340	348	357	365	374	383	392	402	412	422	432	442	453	464	475	487	499	511	523	536	549
	562	576	590	604	619	634	649	665	681	698	715	732	750	768	787	806	825	845	866	887	909	931	953	976
E192	100	101	102	104	105	106	107	109	110	111	113	114	115	117	118	120	121	123	124	126	127	129	130	132
	133	135	137	138	140	142	143	145	147	149	150	152	154	156	158	160	162	164	165	167	169	172	174	176
	178	180	182	184	187	189	191	193	196	198	200	203	205	208	210	213	215	218	221	223	226	229	232	234
	237	240	243	246	249	252	255	258	261	264	267	271	274	277	280	284	287	291	294	298	301	305	309	312
	316	320	324	328	332	336	340	344	348	352	357	361	365	370	374	379	383	388	392	397	402	407	412	417
	422	427	432	437	442	448	453	459	464	470	475	481	487	493	499	505	511	517	523	530	536	542	549	556
	562	569	576	583	590	597	604	612	619	626	634	642	649	657	665	673	681	690	698	706	715	723	732	741
	750	759	768	777	787	796	806	816	825	835	845	856	866	876	887	898	909	920	931	942	953	965	976	988

Viking Milestone

1997-2001

Established For Integrated Passive Devices.

Thin Film Chip R, C, L Thin Film Foundry Service OEM/ODM.

2002-2008

Viking acquired Chip Resistor Company (TMTEC)

ISO9001/14001 TS16949 Certificated

Melf Resistor MP

2011-2012

Set up Viking Tech America Corporation

Viking Tech go on Public in Taiwan.

2013-2016

Expansion Hsinchu Factory Ⅱ

Upgrade ERP

2016-2018

IATF16949 Certificated

KH Factory has processed VDA 6.3

Expansion Kaohsiung Factory

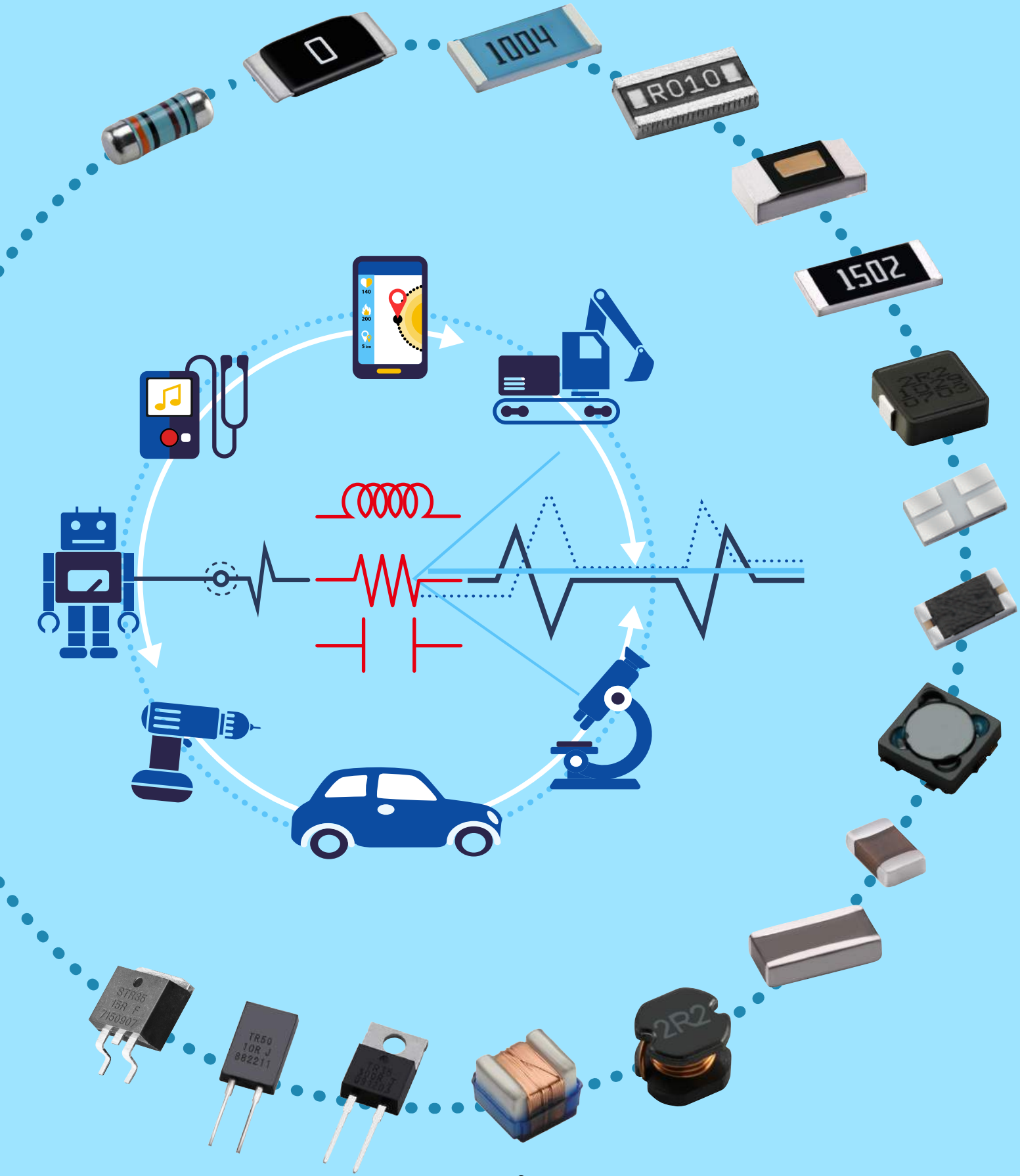
2019-2020

Aggressively Extension for Thin Film, MELF, Metal strip products.

ISO13485 approved. MES (Manufacturing Execution System) 2019-2020 implement.

Core Indicator

Wide Market Size / High Technical Skills.

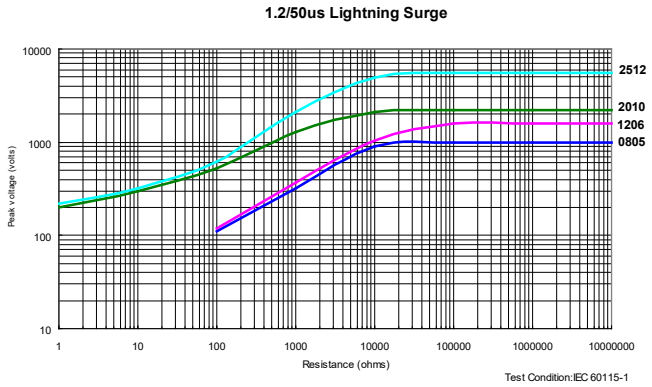


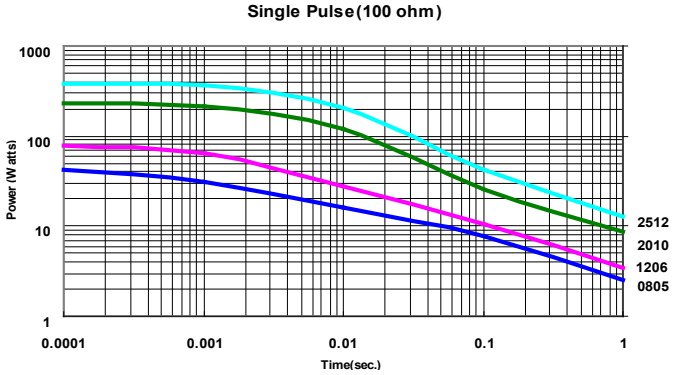
Pulse Withstanding Chip Resistor－PWR Series

■ Features
- Tight Tolerance from ±0.5%
- Excellent pulse withstanding performance
- Standard package sizes of 0402~2512
- AEC-Q200 Compliane
- Wide resistance from 0Ω~20MΩ
- High power/ Ultra high power available

■ Applications
- Metering (Testing/Measurement)
- Diagnostic equipment
- Medical devices
- Industrial controls
- Plasma
- LCD video monitors

※ Jumper available





Metal Film Precision Resistor－CSRA Series

■ Features
- AEC-Q200 Compliance
- Thin film technology
- Excellent overall stability
- Sn termination on Ni barrier layer
- Tight tolerance down to ±0.1%
- Extremely low TCR down to ±10 PPM/˚C
- High power rating up to 1 Watts
- SMD enabled structure
- Complete market size 0201/0204/0207

■ Applications
- Automotive (non-safety parts)
- Industrial
- Telecommunication
- Medical Equipment
- Measurement/Testing Equipment

※ High Performance of Moisture resistance

Flexible Terminal Chip Capacitor－MCFA Series

■ Features
- High mechanical performance able to withstand, 3mm bend test
- Increased temperature cycling performance, 3000 cycles and beyond
- Flexible termination system
- Reduction in circuit board flex failures

■ Applications
- High Flexure Stress Circuit Boards
- Variable Temperature Applications
- Automotive Applications

※ Flexi Term, Flexi application

Product Introduction - Resistor

Thin Film Precision Chip Resistor- TAR Series

■ Features
- Tantalum nitride thin film resistor
- High stability in humid environments
- High Temperature Exposure stability 0.1% at 1000 h at 155˚C
- AEC-Q200 Compliance
- Tight tolerance down to ±0.05% and Extremely low TCR down to±15PPM/˚C
- Special materials, design, and processing for high sulfur applications
- Test proven immunity to humidity, moisture, and sulfur

	TAR
Size	0402~ 1206
Power	1/16W-1/4W
Tolerance	±0.05%、±0.1%、±0.25%、±0.5%、±1%
TCR（ppm/℃）	±15ppm/ 25ppm/ 50ppm
Resistor Range(Ω)	80Ω-250KΩ

Thin Film Precision Chip Resistor- ARN Series

■ Features
- High thermal conductivity aluminum nitride substrate
- Power rating up to 2.0W
- Resistance 500Ω ~ 15KΩ
- Resistor tolerance to ± 0.1% and TCR to ± 25ppm/˚C
- Wider Bottom Electrode

※ Size of 2512 coming soon

	ARN
Size	1206
Power	2W
Tolerance	±0.1%、±0.25%、±0.5%、±1%
TCR（ppm/℃）	±25ppm/ 50ppm
Resistor Range(Ω)	500Ω-15KΩ

Automotive Grade Metal Film Precision MELF Resistor- CSRA Series

■Features
- Thin film technology
- Excellent overall stability
- Sn termination on Ni barrier layer
- Tight tolerance down to±0.1% and Extremely low TCR down to ±10PPM/˚C
- High power rating up to 1 Watts
- AEC-Q200 Compliance
- SMD enabled structure

Size	0102 / 0204 / 0207
Power	1/5W-1W
Tolerance	±0.1%-±5%
TCR（ppm/℃）	10ppm-50ppm
Resistor Range(Ω)	0Ω, 0.1Ω-10M

RoHS Compliant

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | IATF 16949 Automotive Quality Management | ISO 13485 Medical Quality Management

Product Introduction - Resistor

Thin Film Chip Resistor - AR/ARG/PR Series

AR- High Precision / ARG- General purpose / PR- Anti-Corrosive

■ Features
- Advanced thin film technology
- Very tight tolerance down to ±0.01%
- Extremely low TCR down to ± 1PPM/ ˚C
- Wide resistance range 1ohm ~ 3 Mega ohm
- Miniature size 0201 available
- AEC-Q200 Compliance

	Standard	High Power/ Ultra high Power Rating
Size	0201-2512	0402-2512
Power	1/32W-1/2W	1/10W-3/4W(1/6W-1W*)
Tolerance	±0.01%-±1%	
TCR（ppm/℃）	±1ppm-50ppm	
Resistor Range(Ω)	1Ω-3M	1Ω-1M

Metal Film Precision Resistor-CSR/CSRV Series

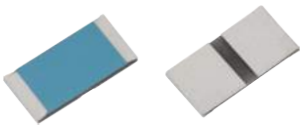
CSR- General MELF / CSRV- High Reliability

■ Features
- Excellent overall stability
- Tight tolerance down to ±0.1%
- Extremely low TCR down to ±5ppm/˚C
- High power rating up to 1Watts
- SMD enabled structure
- AEC-Q200 Compliance

Size	0102 / 0204 / 0207
Power	1/8W-1W
Tolerance	±0.1%-±5%
TCR（ppm/℃）	5ppm-50ppm
Resistor Range(Ω)	0Ω, 0.1Ω-10M

Thick Film High Power Chip Resistor-CRP Series

Aluminum Nitride Substrat



■Features
- Thick film resistive element on an aluminum nitride (AlN) substrates
- Lead (Pb)-free wraparound termination over nickel barrier.

※ Size of 1206 coming soon

Size	2512
Power	3.5W
Tolerance	±1%, ±5%
TCR（ppm/℃）	150ppm
Resistor Range(Ω)	10Ω-2K

Product Introduction - Resistor

Thick Film Chip Resistor - CR/HMR Series

CR- General Thick film Resistor / HMR- High Ohmic

■ Features
- Small size and light weight
- High reliable multilayer electrode construction
- Compatible with all soldering process
- Long side terminations
- AEC-Q200 Compliance

Size	01005-2512 NEW 1225/ 0612 New 0508/1020/1218 coming soon
Power	1/32W-2W
Tolerance	±0.1%/1%/ ±5%
TCR（ppm/℃）	50ppm / 100ppm
Resistor Range(Ω)	0Ω,1Ω-1G

GREEN Thick Film Chip Resistor-CRG Series

Green Resistor without RoHS exemptions

■ Features
- Green Resistor without RoHS exemptions
- High reliable multilayer electrode construction
- Compatible with all soldering process

Size	0201-2512
Power	1/20W-1W
Tolerance	±1%/ ±5%
TCR（ppm/℃）	100ppm / 200ppm
Resistor Range(Ω)	0Ω,1Ω-10M

Pulse/Surge Withstanding Chip Resistor-SWR/ PWR/ HVR Series

PWR- Anti-Pulse, SWR- Anit-Surge, HVR- High Voltage

■ Features
- Higher component and equipment reliability
- Excellent Pulse/surge withstanding and High Voltage
- Reduced size of final equipment
- mproved working voltage ratings
- AEC-Q200 Compliance

Size	0402-2512
Power	1/16W-2W
Tolerance	±0.5%/1% / ±5%/ 10%/ 20%
TCR（ppm/℃）	100ppm/ 200ppm/ 400ppm
Resistor Range(Ω)	1Ω-100M*

RoHS Compliant

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Product Introduction - Resistor

Anti-Sulfurated Thick Film Chip Resistor– AS Series

■ Features
- Special construction to prevent sulfuration in a sulfur containing environment
- High reliability
- AEC-Q200 Compliance

※ Reference Standard：ASTM B 809-95

Size	0201-2512
Power	1/20W-1.5W
Tolerance	±0.5%/1% / ±5%
TCR（ppm/℃）	100ppm/ 200ppm
Resistor Range(Ω)	1Ω-10M*

Thick Film Array Chip Resistor – CN/ CNA Series

CN- Convex type, CAN- Concave type

■ Features
- Small size and light weight
- Reduction of assembly costs and matching with placement machines
- Reliability, high quality
- Suitable for both IR reflow soldering and wave soldering
- AEC-Q200 Compliance

※ Anti-Sulfur is available

Size	0201/ 0402/ 0603 (8P4R, 4P2R)
Power	1/16W
Tolerance	±1% / ±5%
TCR（ppm/℃）	200ppm
Resistor Range(Ω)	1Ω-1M*

Current Sensing Chip Resistor-CS/RS Series

CS- Better TCR, RS- Standard type

■ Features
- 3 Watts power rating in 1 Watts size, 1225 package
- Low TCR of ±100PPM/°C
- Resistance values from 1 to 1000 mohm
- High purity alumina substrate for high power dissipation
- Long side terminations with higher power rating
- AEC-Q200 Compliance

Size	0201-2512 1225/3720/7520/0612 New 0508/1020/1218 coming soon
Power	1/20W-1W (1/8W-2W*) 1W-3W
Tolerance	±1%、±2%、±5%
TCR（ppm/℃）	100ppm-1000ppm
Resistor Range(Ω)	1mΩ-8000mΩ

Product Introduction - Resistor

Metal Strip Chip Resistor-LR/LRP/LRS Series

LR- Metal Strip, LRP- Metal Strip Ultra Low Ohm, LRS- Shunt

■ Features
- High power rating up to 7 Watts
- Low TCR down to ±50 PPM/˚C
- Resistance values from 0.2m to 200mohm
- Customized resistance available
- Wide range package sizes
- AEC-Q200 Compliance

Size	1206 /2010/ 0630/ 1050 /1575
Power	1W- 7W
Tolerance	±0.5%、±1%、±3%、±5%
TCR（ppm/℃）	±50ppm-200ppm
Resistor Range(Ω)	0.2mΩ-200mΩ

Metal Foil Chip Resistor-CSM/ MF Series

CSM- Metal Foil, MF- Metal Foil with smaller size

■ Features
- High power rating in small size
- Low TCR down to ±50 PPM/˚C
- Resistance values from 0.2m to 200mohm
- Metal foil construction ensures high reliability performance with very low and stable TCR
- Compliant with RoHS directive
- AEC-Q200 Compliance

Size	0402/ 0603/ 0805 1206 /2010 /2512
Power	1/8W-1W-7W
Tolerance	±0.5%、±1%、±2%、±5%
TCR（ppm/℃）	±50ppm-200ppm
Resistor Range(Ω)	2mΩ-200mΩ

Low Ohm Chip Resistor- 4T/ LRJ Series

4T- Four Terminals, LRJ- Jumper

■ Features
- SMD Type designed for automatic insertion
- High power rating in small size
- Advanced thick film technology
- Design for current sense circuits in power electronic systems
- Industry standard sizes
- Ultra-Low resistance values Max. 0.5 mΩ (Jumper)
- High current application

	4T	LRJ
Size	4T06/4T10	0402~ 2010
Power	1/2W-3/4W	20A~71A
Tolerance	±0.5%、±1%、±2%、±5%	-
TCR（ppm/℃）	±50ppm/ 75ppm/ 100ppm	-
Resistor Range(Ω)	10mΩ-20mΩ	Jumper (0.5 mΩ Max)

RoHS Compliant

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | IATF 16949 Automotive Quality Management | ISO 13485 Medical Quality Management

Product Introduction - Capacitor

Multilayer Ceramic Chip Capacitor

■ Features
- Wide capacitance range, extremely compost size
- Low inductance of capacitor for high frequency application
- Excellent solderability and resistance to soldering heat, suitable for flow and reflow soldering
- Adaptable tohigh-speed surface mount assembly
- Conform to EIAJ-RC3402, and also compatible with EIA-RS198 and IEC PUB. 384-10
- AEC-Q200 is available

Standard and Middle&High Voltage- MC/ MCF Series

Size	0201/ 0402/ 0603/ 0805/ 1206/ 1210/ 1808/ 1812
Tolerance	±0.1~0.5pF, ±1%~5%, ±10%, ±20%, +80/-20%
Voltage	6.3V~3000V*
Dielectric	NPO(C0G)/X7R/X5R/Y5V
Capacitance	0.1pF~100uF

Ultra High Q & Low ESR- MCRF series

Size	0201/ 0402/ 0603/ 0805
Tolerance	±0.1~0.5pF, ±1%~5%
Voltage	6.3V~500V*
Dielectric	NPO(C0G)
Capacitance	0.1pF~100pF

Flexible Terminal- MCFA Series

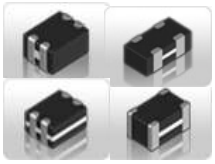
Size	0603/ 0805/ 1206
Tolerance	±5%, ±10%, ±20%
Voltage	6.3V~1000V*
Dielectric	NPO(C0G)/X7R
Capacitance	0.1pF~12nF

Product Introduction - Inductor

Thin film Ceramic Chip Inductor- AL Series

Size	0201/ 0402
Inductance (L)	0.1nH~ 33nH

Multilayer Common Mode Filters- CMX Series



■ Features
– AEC-Q200 Available

Size	02502 / 03025 / 0504 / 0805 / 1206
Impedance (Ω)	12/ 15/ 35/ 36/ 47/ 50/ 67/ 90/ 120/ 160/ 180/ 220Ω

Multilayer Chip Inductor- CL-S Series

■ Features
– AEC-Q200 Available

Size	0201/ 0402/ 0603
Inductance (L)	0.6nH~ 680nH

Wire Wound Chip Inductor- WL Series

Size	0201/ 0402/ 0603/ 0805/ 1008/ 1206
Inductance (L)	0.5nH~ 15000nH

SMD Power Inductor- VLH Series

Size	252010/252012/252510/322515/ 322520/453226/575047
Inductance (L)	0.12uH~10000uH

SMD Power Inductor- SDIA-G Series

Size	02512/0315/0418/0420/0430/ 0520/0540/0620/0628/0645/0840
Inductance (L)	0.33uH~ 1000uH

RoHS Compliant

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Product Introduction - Inductor

Wire Wound Type Power Inductor- MLP(H) Series

Size	0806/ 1004/ 1008
Inductance (L)	0.22uH~ 4.7uH

SMD Metal Alloy Power Inductor- SMA Series

Size	0310/0312/0315/0320/0410/0412/0415/0420/ 0510/0512/0515/0520/0610/0612/0615/0620
Inductance (L)	0.47uH~ 10uH

Multilayer Chip Beads- CBM Series

■ Features
– AEC-Q200 Available

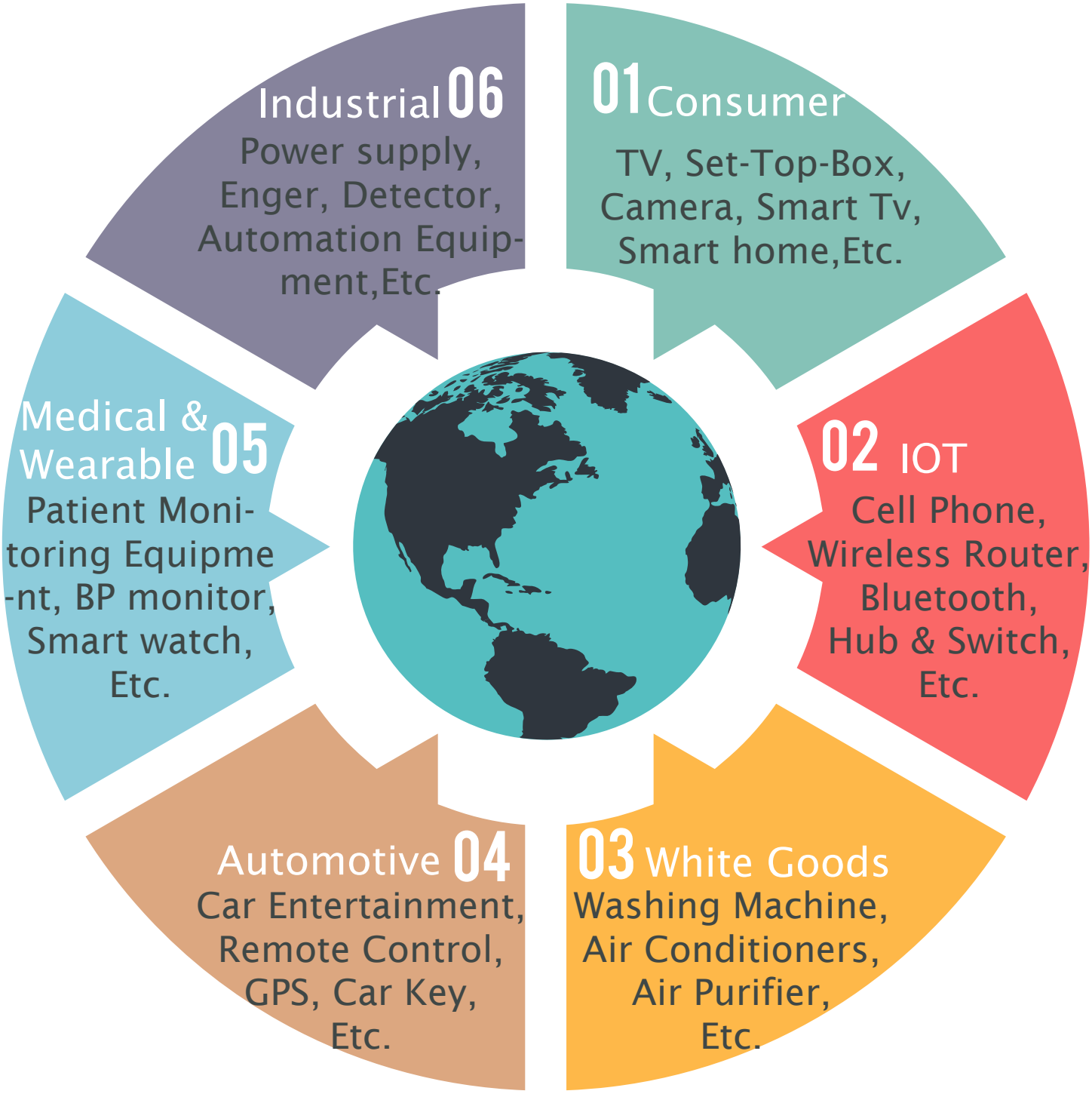
Size	0201/0402/0603/0805/1204/ 1210/1808/1812/2220
Impedance (Ω)	5~ 2700Ω

Shielded Molding SMD Power Inductor- SDN Series

Size	0412/0420/0518/0530/0618/ 0624/0630/1040
Inductance (L)	0.15uH~ 47uH

Viking Application Gateway

Viking Tech Application gateway is categorized into several major market segments:



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