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Automotive Application

Resistor, Capacitor, Inductor

IATF16949, AEC-Q200, VDA6.3,
RoHS, Zero-defect



Automotive Grade Chip Resistor

Series	PN	Product	Size	Power	Tolerance	Resistance	TCR/PPM
Metal Foil Low Ohm	MF03..A		0603	1/4W, 1/3W, 1/2W	±1%, ±2%, ±5%	5mΩ~20mΩ	±50/±100±/200
	MF05..A		0805	1/4W, 1/3W, 1/2W		3mΩ~47mΩ	
	MF06..A		1206	1/2W, 1W		3mΩ~56mΩ	
	MF10..A		2010	1W		3mΩ~100mΩ	
	MF12..A		2512	1W, 2W		2mΩ~200mΩ	
High Power Metal Strip	LRP05..A		0805	0.75W, 1W	±0.5%, ±1%, ±5%	2mΩ, 5mΩ, 10mΩ, 5mΩ, 20mΩ	±50/75
	LRP06..A		1206	1W		3mΩ~40mΩ	±50/75/100
	LRP10..A		2010	1W, 2W		4mΩ~100mΩ	±75
	LRP12..A		2512	2W, 3W		1mΩ~200mΩ	±25/50/75
Alloy Chip Shunt Resistor	LRA0340..A		0340	5W, 7W, 9W, 10W	±0.5%, ±1%, ±5%	0.3, 0.5, 1, 2, 2.5mΩ	±100
	LRA0766..A		0766	4W~12W		0.2~4mΩ	±25/50/75
	LRA1066..A		1066	4W~12W		0.2~4mΩ	
Chip Shunt Resistor Wide Terminal	LRSW0630..A		0630	2.5W~6W	±1%, ±5%	0.3mΩ~5mΩ	±50/75/100/150
	LRSW1050..A		1050	3W~12W		0.2mΩ~5mΩ	
	LRSW1575A		1575	7W~15W		0.2~3mΩ	
Power Resistor	TR50-RF..A		TO220	50W	±0.5, ±1%, ±5%, ±10%	0.05Ω~100KΩ	±50/100/200/300

Multilayer Capacitor

Series	PN	Product	Size	Voltage	Tolerance	Dielectric	Capacitance
Multilayer Capacitor	MCF01.A		0201	25V~50V	±0.05/0.1pF ±0.5pF, ±1%~±5%, ±10%~20%, +80/20%	NPO /X7R 0.1pF~6.8nF	
	MCF02.A		0402	6.3V~100V		NPO/X7R/X7S/X5R 0.5pF~22uF	
	MCF03.A		0603	6.3V~250V			
	MCF05.A		0805	6.3V~250V			
	MCF06.A		1206	25V~2000V			
	MCF10.A		1210	250V~3000V			
	MCF08.A		1808	250V~3000V			
	MCF12.A		1812	250V~3000V			

Inductor

Product	PN	Product	Size	Inductance	Tolerance	IDC	DCR
RF Chip Inductor	CL01-SA		0201	0.6nH~18nH	±0.1n, ±0.2n, ±0.3nH, ±2, ±3%, ±5%	80mA~1000mA	0.05Ω~5Ω
	CL02-SA		0402	0.3nH~100nH		60mA~1200mA	0.01Ω~10.6Ω
	CL03-SA		0603	1nH~120nH		100mA~500mA	0.05Ω~4.5Ω
Common Mode Filter	CMX04B.A		0504	67/90/120Ω	±25%	300mA	10V, 0.2Ω
	CMX05B.A		0805	67/90/120/160/ 180/220Ω		300~400mA	10V, 0.2Ω
Chip Bead	CBF02.A		0402	0~1000Ω	0-15Ω~±25%	200mA~1.8A	0.04Ω~1Ω
	CBF03.A		0603		0-15Ω~±25%	500mA~6A	0.08Ω~0.55Ω
	CBF05.A		0805	0~1500Ω	0-15Ω~±25%	300mA~6A	0.03Ω~0.5Ω
	CBF04.A		1204		0-15Ω~±25%	450mA~6A	0.01Ω~0.45Ω
Product	PN	Product	Size	Inductance	Tolerance	IDC	DCR
Power Inductor	SDIA0315.A		0315	1μH~47μH	±20%~30%	0.32A~2.1A	0.037Ω~1.2Ω
	SDIA0418.A		0418	1μH~100μH		0.4A~4A	0.023Ω~1.5Ω
	SDIA0430.A		0430	1μH~100μH		0.6A~5.26A	0.014Ω~1.15Ω
	SDIA0520.A		0520	1μH~47μH		0.81A~4.33A	0.02Ω~0.56Ω
	SDIA0540.A		0540	1μH~220μH	±20%	0.45A~7.35A	0.012Ω~1.45Ω
	SDIA0628.A		0628	1μH~100μH		0.65A~6.7A	0.012Ω~0.67Ω
	SDIA0645.A		0645	2.2μH~220μH		0.8A~6A	0.021Ω~1.1Ω
	SDA0630.A		0630	0.18μH~4.5μH		10A~40A	4.7mΩ~25.3mΩ
Power Choke	SDE0420HP.A		0420	1μH~10μH	±20%	2.3~8.5A	22mΩ~215mRΩ
	SDE0530HP.A		0530	1μH~10μH		4~12A	12.6mΩ~112mΩ
	SDE0630H.A		0630	1μH~22μH		3.5~22A	8.3mΩ~165mΩ
	SDE0650H.A		0650	1μH~22μH		5.5~20A	6.1mΩ~140mΩ
	SDE1040H.A		1040	1μH~47μH		4.5~36A	3mΩ~145mΩ
	SDE1050H.A		1050	1μH~47μH		6.5~30A	2.8mΩ~125mΩ
	SDE1265HP.A		1265	1μH~47μH		9.5~48A	1.7Ω~76Ω
	SDE1770HP.A		1770	1μH~47μH		9.5~60A	1.6mΩ~48mΩ
Common Mode Filter	CFH10.A		1210	11μH~100μH	+50%/-30%	150mA~300mA	0.4Ω~1.5mΩ
	CFH12.A		1812	11μH~100μH		200mA~360mA	0.6Ω~2Ω

Automotive Grade Chip Resistors

Series	PN	Product	Size	Power	Tolerance	Resistance	TCR/PPM
Anti-Sulfur	AS01..A		0201	1/20W	±0.5% ±1%, ±5%	0Ω,1Ω~10MΩ	±100, ±200
	AS02..A		0402	1/16W, 1/8W			
	AS03..A		0603	1/10W, 1/4W			
	AS05..A		0805	1/8W, 1/3W			
	AS06..A		1206	1/4W, 1/2W			
	AS10..A		1210	1/3W, 3/4W			
	AS0A..A		2010	3/4W, 1W			
	AS12..A		2512	1W, 2W			
Anti-Sulfur Lead Free	ASG02..A		0402	1/16W, 1/10W	±0.5% ±1%, ±5%	0Ω,1Ω~10MΩ	±100, ±200
	ASG03..A		0603	1/10W, 1/4W			
	ASG05..A		0805	1/8W, 1/3W			
	ASG06..A		1206	1/4W, 1/2W			
	ASG10..A		1210	1/3W, 3/4W			
	ASG0A..A		2010	3/4W, 1W			
	ASG12..A		2512	1W, 1.5W			
	Resistor Array		CN-21..A				
CN-21..A		1/32W	0Ω, 10Ω~1MΩ		±200		
CN-41..A		0201*4	1/32W			0Ω, 10Ω~1MΩ	
CN-42..A			0402*4			1/16W	0Ω, 1Ω~1MΩ
CN-43..A		0603*4	1/10W				
CN-43..A							
Flat Array	CNF22..A		0402*2	1/16W	±1%, ±5%	0Ω, 1Ω~1MΩ	±200
	CNF22..A					0402*2	
	CNF42..A		0402*4				
	CNF43..A		0603*4	1/10W, 1/8W			
	CNF43..A						
Anti-Sulfurated Resistor Array	AS-21..A		0201*2	1/32W	±5%	3Ω~9.1Ω	±300
	AS-21..A			1/32W	±1%, ±5%	10Ω~1MΩ	±200
	AS-41..A		0201*4	1/32W			
	AS-42..A			0402*4		1/16W	
	AS-43..A		0603*4	1/10W			
Thick Film Wide Terminal	CRW08..A		0508	0.75W, 1W	±0.5%, ±1%, ±5%	0Ω, 1Ω~1MΩ	±100/±150±/200
	CRW62..A		0612	1W, 1.5W			
	CRW20..A		1020	1.5W, 2W			
	CRW25..A		1225	2W, 3W			
Pulse Withstanding	PWR02..A		0402	1/5W	±0.5%, ±1%, ±5%	0Ω, 1Ω~1MΩ	±100/±200/±300
	PWR03..A		0603	1/10W, 1/4W, 1/3W		0Ω, 1Ω~20MΩ	±100, ±200
	PWR05..A		0805	1/8W, 2/5W, 1/2W			
	PWR06..A		1206	1/3W, 1/2W, 3/4W			
	PWR13..A		1210	1/2W, 3/4W, 1W			
	PWR10..A		2010	3/4W, 1W, 1.25W			
	PWR12..A		2512	1.5W, 2W			
	PWR12..A		2512	1.5W, 2W			
Surge Withstanding	SWR02..A		0402	1/5W	±5%, ±10%, ±20%	1Ω~1MΩ	±100/±200/±300
	SWR03..A		0603	1/8W, 1/4W, 1/3W		1Ω~20MΩ	±100, ±200
	SWR05..A		0805	1/4W, 2/5W, 1/2W			
	SWR06..A		1206	1/3W, 1/2W, 3/4W			
	SWR13..A		1210	1/2W, 3/4W, 1W			
	SWR10..A		2010	3/4W, 1W, 1.25W			
	SWR12..A		2512	1.5W, 2W			
	SWR12..A		2512	1.5W, 2W			
High Voltage	HVR02..A		0402	1/16W, 200V	±1%, ±5%	39KΩ~100MΩ	±100, ±200, ±400
	HVR03..A		0603	1/10W, 400V		56KΩ~100MΩ	
	HVR05..A		0805	1/8W, 800V		100KΩ~100MΩ	
	HVR06..A		1206	1/4W, 1000V		51KΩ~100MΩ	
	HVR0A..A		2010	1/2W, 3000V		30KΩ~100MΩ	
	HVR12..A		2512	1W, 4000V			
	HVR12..A		2512	1W, 4000V			
High Voltage LOW VCR	HVRC06		1206	1/3W, 1500V	±0.5%, ±1%, ±5%	100KΩ~500MΩ	±100, VCR<25
	HVRC0A		2010	1/2W, 3000V		51KΩ~500MΩ	
	HVRC12		2512	1W, 4000V		30KΩ~500MΩ	



Automotive Grade Chip Resistors

Series	PN	Product	Size	Power	Tolerance	Resistance	TCR/PPM
Thin Film Precision NiCr	AR02..A		0402	1/16W, 1/10W	±0.01%~0.1%~±1%	10Ω~221KΩ	±5/10/15/25/50
	AR03..A		0603	1/16W, 1/10W, 1/8W		4.7Ω~680KΩ	
	AR05..A		0805	1/10W, 1/8W, 1/5W		4.7Ω~1MΩ	
	AR06..A		1206	1/8W, 1/4W, 2/5W		4.7Ω~1.5MΩ	
	AR13..A		1210	1/4W, 1/3W, 1/2W		10Ω~1MΩ	
	AR10..A		2010	1/4W, 1/3W			
	AR12..A		2512	1/2W			
Tantalum Nitride Precision	TAR02		0402	1/16W	±0.05%~±1%	40Ω~35KΩ	±10/15/25/50
	TAR03		0603	1/6W		40Ω~130KΩ	
	TAR05		0805	1/5W		10Ω~350KΩ	
	TAR06		1206	1/2W		10Ω~1MΩ	
Precision Metal Film High ohm	ARM02..A		0402	1/32W, 1/16W, 1/8W	±0.02%~±0.5%	10Ω~150KΩ	±5/10/25/50/100
	ARM03..A		0603	1/16W, 1/10W, 1/6W		10Ω~1MΩ	
	ARM05..A		0805	1/10W, 1/8W, 1/4W		10Ω~2.7MΩ	
	ARM06..A		1206	1/8W, 1/4W		10Ω~5.1MΩ	
Precision High Temp	ART02..A		0402	1/10W	±0.1%~±1%	10Ω~221KΩ	±25/50
	ART03..A		0603	3/20W		4.7Ω~511KΩ	
	ART05..A		0805	1/5W		4.7Ω~1MΩ	
	ART06..A		1206	2/5W			
Precision High Temp High power	ARTP02..A		0402	1/5W	±0.1%~±1%	47Ω~100KΩ	±25/50
	ARTP03..A		0603	1/4W		10Ω~100KΩ	
	ARTP05..A		0805	2/5W			
Thin Film Precision High Voltage	ARHV05..A		0805(900V)	1/5W	±0.1%~±1%	180KΩ~1MΩ	±10/15/25/50
	ARHV06..A		1206(1400V)	1/4W		160KΩ~2MΩ	
	ARHV13..A		1210(2000V)	1/3W		121KΩ~3.01MΩ	
Wide Terminal	ARW62..A		0612	1W	±0.1%~±1%	2.5Ω~80KΩ	±25/50
	ARW20..A		1020	1.5W		2.5Ω~200KΩ	
	ARW25..A		1225	2W		2.5Ω~250K	
Thick Film Low TCR Current Sensing	CS02..A		0402	1/16W, 1/8W	±1%, ±2%, ±5%	50mΩ~1Ω	±100~±400
	CS03..A		0603	1/10W, 1/8W, 1/5W		20mΩ~1Ω	±100~±600
	CS05..A		0805	1/8W, 1/4W, 1/2W		10mΩ~1Ω	
	CS06..A		1206	1/4W, 1/2W			
	CS13..A		1210	1/2W, 3/4W			
	CS10..A		2010	3/4W, 1W			
	CS12..A		2512	1W, 1.5W, 2W			
	CS25..A		1225	3W		3mΩ~8Ω	
	CS37..A		3720	1W		10mΩ~500mΩ	
	CS75..A		7520	2W		1mΩ~350mΩ	
	CS62..A		0612	1W		10mΩ~1Ω	
MELF Metal Film Precision	CSRA0102		0102	1/5W, 3/10W	±0.1%~±5%	0Ω, 1Ω~1MΩ	±5/±10/±15/±25/±50/±100
	CSRA0204		0204	1/4W, 2/5W		0Ω, 0.1Ω~10MΩ	
	CSRA0207		0207	1/2W, 1W			
MELF High Voltage	CSRP0204		0204	2/5W, 500V	±0.1%~±1%	340KΩ~10MΩ	±25/50
	CSRP0207		0207	1W, 1000V			
Thick Film	CR-01..A		0201	1/20W	±0.5% ±1%, ±5%	0Ω, 1Ω~10MΩ	±100/±200
	CR-02..A		0402	1/16W, 1/10W, 1/8W			
	CR-03..A		0603	1/10W, 1/4W			
	CR-05..A		0805	1/8W, 1/3W			
	CR-06..A		1206	1/4W, 1/2W			
	CR-10..A		1210	1W			
	CR-0A..A		2010	1W, 1.25W, 2W			
	CR-12..A		2512	2W, 3W			
Thick Film High Precision	CRTC02..A		0402	1/16W, 1/8W	±0.1%~ ±1%	300Ω~1MΩ	±25/50
	CRTC03..A		0603	1/10W, 1/5W		10Ω~10MΩ	
	CRTC05..A		0805	1/8W, 1/4W			
	CRTC06..A		1206	1/4W, 1/3W			
Thick Film Lead Free	CRG02..A		0402	1/16W	±1%, ±5%	0Ω, 1Ω~10MΩ	±100/±200
	CRG03..A		0603	1/10W			
	CRG05..A		0805	1/8W			
	CRG06..A		1206	1/4W			
	CRG10..A		1210	1/3W			
	CRG0A..A		2010	3/4W			
	CRG12..A		2512	1W			

Viking Tech Corp.

www.viking.com.tw
Email: sales@viking.com.tw

Taiwan, Hsin Chu Headquarter
TEL: 886-3-5972931

Taiwan, Kaohsiung Branch
TEL: 886-7-8217999

China Office

Dong Guan Office
TEL: 86-769-82026115

Shanghai Office
TEL: 86-21-5273113

Cheng Du Office
TEL: 86-137-95302908

China Wuxi Factory

Email: China@viking.com.tw
TEL: 86-510-85203339

USA , CA office

Email: sales@vikingamerica.com
TEL: 1-949-398-5228

Viking Europe

Email: Sales@vikingeuro.com
TEL: + 39 334 3825550

Bengaluru, India Office

Email: india@viking.com.tw



Automotive Applications

Wireless Charger

PEPS (Keyless System)

TPMS Module

Window Lift, Mirror control

Auto-control door

Air Conditioning, HVAC

Seat Heating, positioning

Remote Start

Temperature Sensor

Cluster

Navigator

Gateway ECU

Telematics Control Unit (TCU)

Entertainment-Audio, TV, LCD...

Satellite Radio

View Camera ECU

Laser Sensor

Front Sensing Camera

Ultrasonic Sensor

mmWave Radar

Parking Assistant

Interior Lighting

Rear & Signal lighting

HID Lighting

LED/ Lamp Driver

Light sensor

Inverter & Boost Converter

Plug-In Batter charger

DC DC Converter

BMS (Battery Management System)

Battery cell Temp Monitoring

Comfort & Positioning



CR.A Series : Thick film High Power Resistor

AR..A/ART/ARTPA Series :

Thin Film Precision Resistor

CS/CSN.A Series : Thick Film Current Sensing

LRP/MF.A Series : Metal Strip Current Sensing

MCF.A Series : Multilayer Chip Capacitor

PWR/SWR.A Series : Pulse Resistor

SDA/SDE.A Series : Power Inductor

Infotainment / Entertainment Telematics



CR.A Series : CR high power : Thick film Resistor

AR..A/ART/ARTPA Series :

Thin Film Precision Resistor

CS.A Series : Thick Film Current Sensing

LRP/MF.A Series : Metal Strip Current Sensing

MCF.A Series : Multilayer Chip Capacitor

MC high Cap : Multilayer Capacitor High Cap

WLGA, CLSA Series : High frequency Inductor

Advanced Driver Assistance Systems (ADAS)



CNF.A/TFAN Series :

Thick/Thin Film Resistor Array

SDA/SDE.A Series : Power Inductor

MCF.A : NPO/X7R/X5R /X7S Multilayer Chip
Capacitor

LRP/MF.A Series : Metal Strip Current Sensing

Vehicle Lighting



CR..A Series : CR high power : Thick film Resistor

AR..A/ART/ARTPA Series :

Thin Film Precision Resistor

CS/CSN..A Series : Thick Film Current Sensing

LRP/MF.A Series : Metal Strip Current Sensing

MCF..A Series : NPO/X7R/X5R Multilayer Chip
Capacitor, Capacitor High Cap, High Voltage

MCFA Series : Soft Termination capacitor

SDA/SDE.A Series : Power Inductor

CSRA Series : MELF Precision Resistor

PWR/SWR.A Series : Pulse Resistor

Electric Vehicle / Hybrid Vehicle



AS..A Series : Thick film Anti-Sulfur Resistor

AR..A/ART/ARTPA/ARM.A Series :

Thin Film Precision Resistor

CS/CSN..A Series : Thick Film Current Sensing

CR..A Series : Thick Film Resistor

SWR.A Series : Anti-Surge Thick Film Resistor

LRP/MF.A Series : Metal Strip Current Sensing

CSRA /CSRP Series : MELF Precision Resistor

CRW/CSW.A Series : Long Side Resistor

LRS Series : Shunt Resistor

MCF..A Series : Multilayer Chip Capacitor