



PSA

佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.

WE CONNECT & WE PROTECT WE ARE ONE

**INTEGRATED
COMPONENTS
SOLUTION**

Hello We are INPAQ



Innovation

- Dielectric Ceramic
- Magnetic Ceramic
- Magnetic Alloy



Competition

- Multilayer
- Thick film
- Thin film
- LTCC
- Molding
- Wire-wound
- LDS
- LAP



Advanced Design Service

- 3D simulation
CST, HFSS, Maxwell
- Circuit simulation
ADS, AWR, Designer
- Laboratory
24 anechoic chambers



1998
Year Established

IPO
TW #6284

2140[↑]
Global INPAQ People

5
Factories

24
Chambers

100[↑]
Intellectual
Properties

100[↑]
Global Brand
Customers



**RF
Antenna**

**Passive
Component**

Global Support

24H Responsiveness
Worldwide Distributions



INPAQ Integrated Components Solution

We are INPAQ — delivering globally competitive, premium RF Antenna and Electronic Component solutions with comprehensive ODM, OBM, and OEM services.

Backed by independent R&D, in-house manufacturing, and patented technologies, we partner with over 100 leading global brands, providing essential connection & protection solutions for everyday life.



HF
Halogen Free



RoHS

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- Over Voltage Protection**
- EMI Suppression Filter**
- Applicaton Guide**

We are INPAQ

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INPAQ Integrated Components Solution

Inductor

INPAQ's **Inductors** own multiple process technique, such as Metal molding, Multilayer, and Wire-wound types. Besides multiple processes, INPAQ also has optimally design ability to realize the small size and high performance inductors.

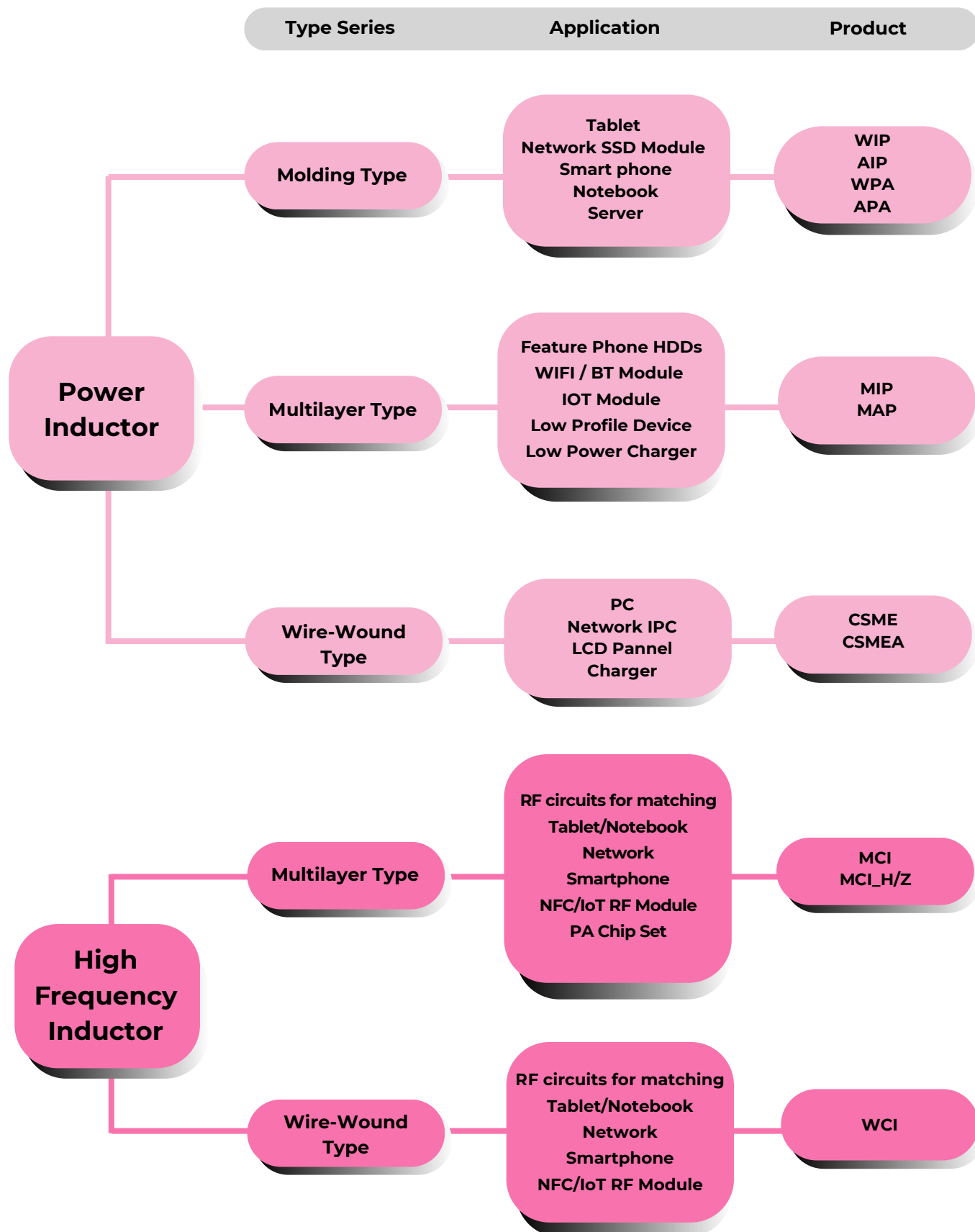
INPAQ offers a broad lineup of chip inductors, applications ranging from consumer use to automotive applications that require high reliability, such as high-frequency circuits, power supply circuits, in-vehicle PoC, short-range wireless communication, etc.

 **Automotive grade (AEC-Q200)**

Structure	Series	Description
Molding	Metal	WIP WPA  AIP APA  This product can be used for a wide range of high current power circuits from smart phones to industrial electronics and automotive device applications. It is composed by metal alloy materials and manufacture by molding process.
	Metal Alloy	MAP This product is monolithic construction performs high reliability and ensures a closed magnetic flux in a component avoids magnetic leakage and interference. It's allow for higher mounting density and low DC resistance.
	Ferrite	MIP This product is characterized by small size and low profile, such as the 2016/2012/1608 and the height can below to 0.5mm. It can be used for lower power circuits, such as wearable devices, IoT Module and automotive device applications. It is composed by ferrite materials and manufacture by multilayer printing process.
Wire-wound	Ceramic	MCI MCI_H/Z  Particular ceramic material and coil structure provid high frequeny application range up to 10GHz.
	Ferrite Assembly	CSME CSMEA  This product is characterized by its wide range of inductance. It is widely be used in DC-DC power supply circuits.
	Ceramic Assembly	WCI This product is wire wound type ceramic inductor. And our product provide high Q value. So INPAQ chip inductor can be SRF(self resonant frequency) industry. This can often eliminate the need for variable components in tuned circuits and oscillators.

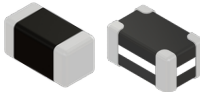
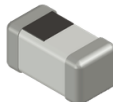
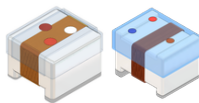
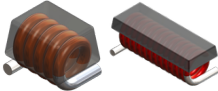
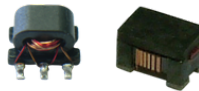
Inductor

Inductor Series



Inductor

Process & Package

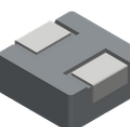
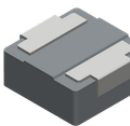
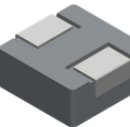
Process	Package	Feature
Metal Molding	Mini Molding 	- SMD Miniature Type 1412~3225 mm Size - Apply for Smartphone, Modules, Memory, PC/NB, Netcom - Compliance AEC-Q200 
	Big Molding 	- SMD Type - High Saturation - Lower DCR 3030~1717 mm Size - Apply for Motherboard, VGA, Server, Memory, NB, Netcom - Compliance AEC-Q200 
Multilayer	Ferrite Chip Bead Power Inductor Common Mode Choke 	- SMD Miniature Type - Better Solder Ability - Low Profile - Compliance AEC-Q200 
	LTCC Ceramic Chip Inductor 	0603~ 1608 mm Size - High Q Value, High SRF - Tight Tolerance - Compliance AEC-Q200 
Wire-Wound	Chip Inductor 	- High Q Value, High SRF - Small Chip Suitable for Surface Mounting
	Air Coil 	- High Q - Customized Winding
	RF Balun 	- Low Insertion Loss - SMD Type
	Shielding, Unshielding Choke 	- SMD Type - Dip Type - Customized

SMD Power Inductor

Product Line Up

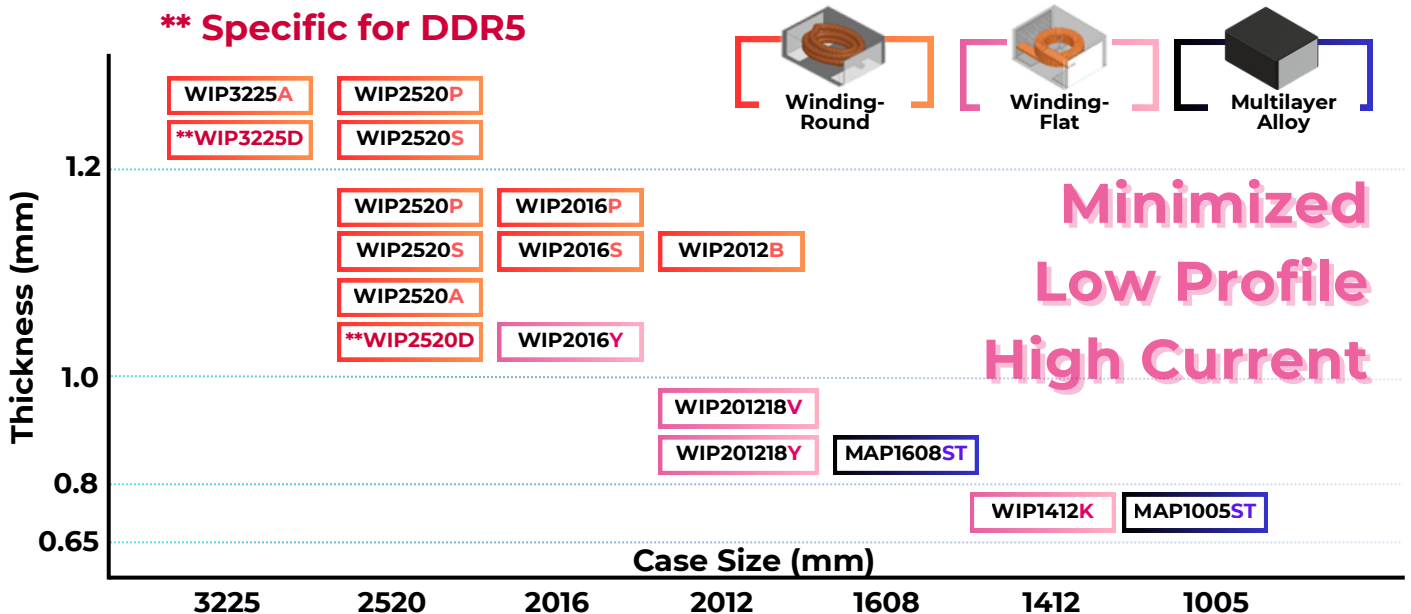
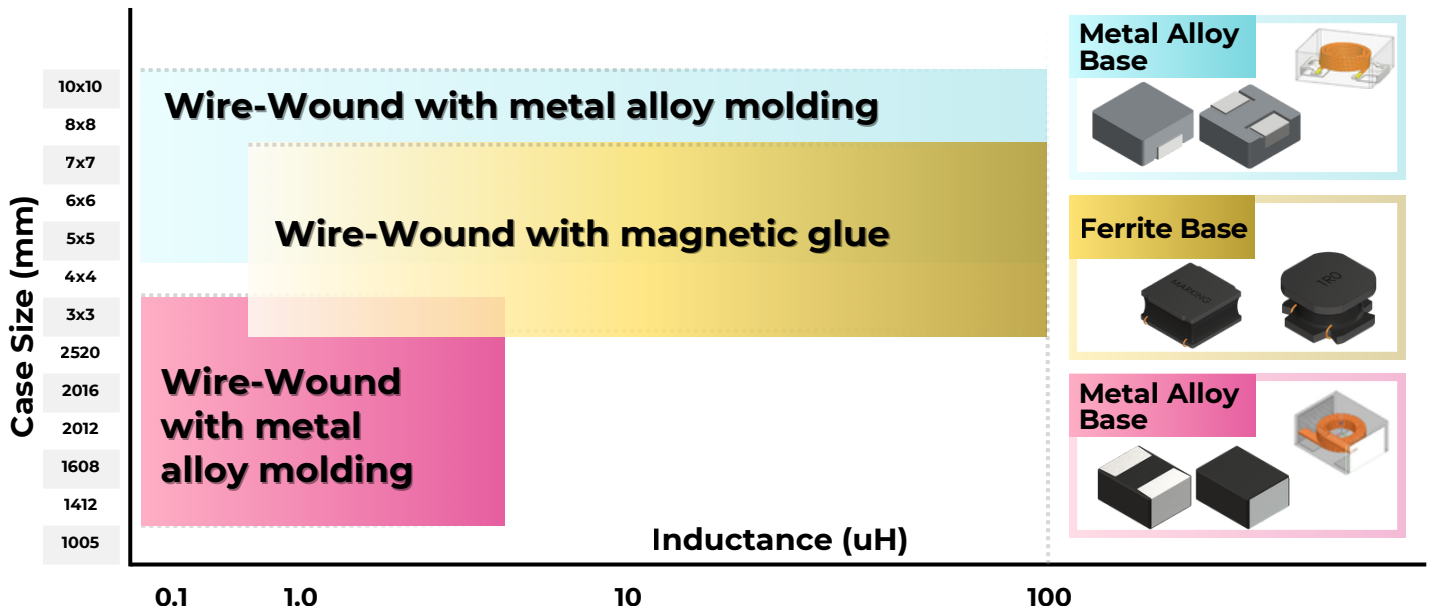


Automotive grade (AEC-Q200)

Category	Appearance	Size Code (inch/mm)	T Size Max (mm)	Inductance								Inductance Range (uH)	AEC- Q200	Series
				uH										
				0.1	1.0	6.8	10	33	50	150				
Thickness Type		0605/1412	0.65									0.1~0.47		WIP-K/V
		0605/1412	0.8									0.1~0.47		
		0805/2012	0.8									0.1~0.47		
General L Type		0805/2012	1.0									0.1~2.2		WIP- P/S/Y/A
		0806/2016	1.0									0.1~4.7		
		0806/2016	1.2									0.1~2.2		
		1008/2520	1.0									0.1~4.7		
		1008/2520	1.2									0.1~4.7		
		1210/3225	1.2									0.1~6.8		
Auto Grade		0806/2016	1.0									0.1~4.7		WPA-S
		0806/2016	1.2									0.1~2.2		
		1008/2520	1.0									0.1~4.7		
		1008/2520	1.2									0.1~4.7		
		1210/3225	1.2									0.1~6.8		
General Molded Type		1616/4040	2.0									0.1~10		AIP-MB
		2020/5050	1.5/1.8/2.0/3.0									0.1~33		
		2525/6060	1.5/1.8/2.4/3.0/4.0/5.0									0.1~47		
		3030/7070	5.0									0.22~22		
		4040/100100	3.0/4.0/5.0									0.1~100		
		5050/130130	4.0/5.0/6.0/6.5									0.1~150		
		6767/170170	7.0									0.1~150		
High Performance Molded Type		*1616/4040	2.0									0.22~4.7		AIP-GX
		2020/5050	3.0									0.22~22		
		2525/6060	3.0									0.22~22		
High performance Auto Grade		2020/5050	3.0									0.22~22		APA-AP
		2525/6060	3.0									0.22~22		
		2525/6060	5.4									1.0~4.7		
		3030/7070	5.4									1.0~100		
		4040/100100	4.0/5.4									1.0~100		

SMD Power Inductor

Competitive Product Series



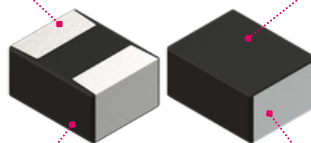
Innovation Process

- Magnetic Paste & Slurry
- Excellent Product Efficiency



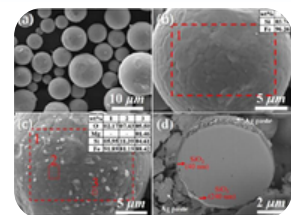
Color (by insulating paste)

- Mysterious Black
- Body Protection



Body Material

- High Density, Low loss
- Iron base, Alloy compound



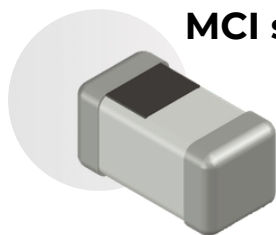
L Type Electrode

- Avoid to contact with case

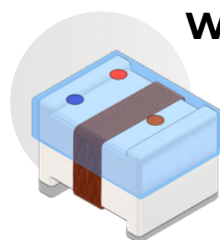
RF Inductor

Product Line Up

**Multilayer
MCI series**



**Wire-wound
WCI series**



Automotive grade (AEC-Q200)

Category	Series	Feature	Size Code (inch/mm)	Inductance Range (H)						Rated Current (A)				
				0.1n	1.0n	10n	100n	1.0u	10u	10m	50m	100m	200m	1.0
Multilayer	MCI0603TG	Standard Q	0201/0603	0.1n	-	39n								120mA - 850mA
	MCI0603TM	High Q	0201/0603	0.6n	-	75n								100mA - 850mA
	MCI1005HQ	Standard Q	0402/1005	0.3n	-	150n								140mA - 1.0mA
	MCI1608HQ	Standard Q	0603/1608		1.0n	-	470n							150mA - 1.0mA
	MCI0603MZ 	High Q	0201/0603	0.6n	-	22n								200mA - 850mA
	MCI1005HZ/HH 	Standard Q	0402/1005	0.3n	-	100n								200mA - 1.0A
	MCI1608HH 	Standard Q	0603/1608		1.0n	-	120n							300mA - 1.0A
Wire-Wound	WCI1005CP	Standard Q	0402/1005		1.0n	-	160n							30mA - 1.36A
	WCI1608CP	Standard Q	0603/1608		1.6n	-	470n							80mA - 700mA
	WCI1608HQ	High Q	0603/1608		1.8n	-	390n							170mA - 2.1A
	WCI2012CP	Standard Q	0805/2012		2.2n	-	1.0u							170mA - 600mA
	WCI2520HQ	High Q	0805/2012		2.5n	-	51n							1.0A - 1.6A
	WCI2520CP	Standard Q	1008/2520				10n	-	15u					120mA - 1.0A
	WCI2520HQ	High Q	1008/2520			3.0n	-	33n						900mA - 1.6A
	WCI3225CP	Standard Q	1210/3225			4.7n	-	3.3u						150mA - 600mA
	WCI4532CP	Standard Q	1812/4532				82n	-	4.7u					300mA - 1.5A

INPAQ Integrated Components Solution

Over Voltage Protection

INPAQ's **ESD Suppressor** product line offers a wide range of devices to suit the most of applications in the market with ESD level up to **15KV** and parasitic capacitances as low as **0.05pF**.

 **Automotive grade (AEC-Q200)**

Structure	Series	Description
ESD Suppressor	Thick Film EGA EGA AM  CGA CES TVU	Dielectric discharge: Use the ESD Guard layer to form a jump path
	Thin Film TFE TFE AM  TLE TUE	Air discharge: Use an air chamber (Air gap) to form a jump path

INPAQ's **Multilayer Varistor** special coating technology provides good reliability and solderability.

Lead free plating termination provided good solderability characteristic.

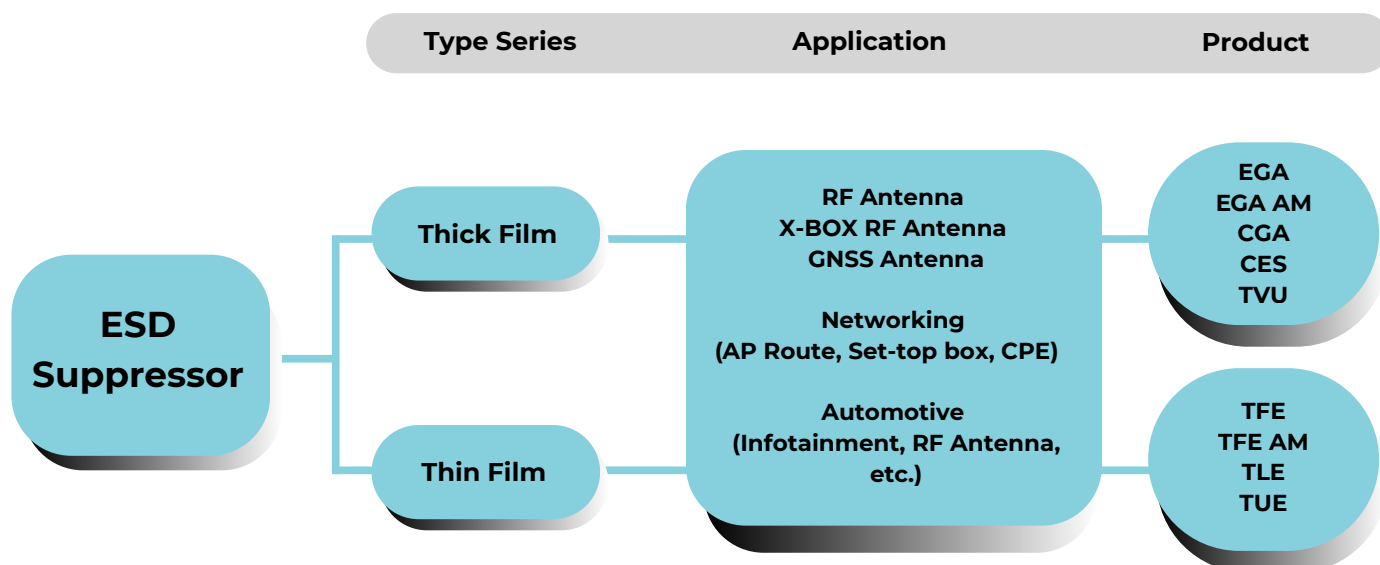
Insulator over coat keeps excellent low and stable leakage current.

 **Automotive grade (AEC-Q200)**

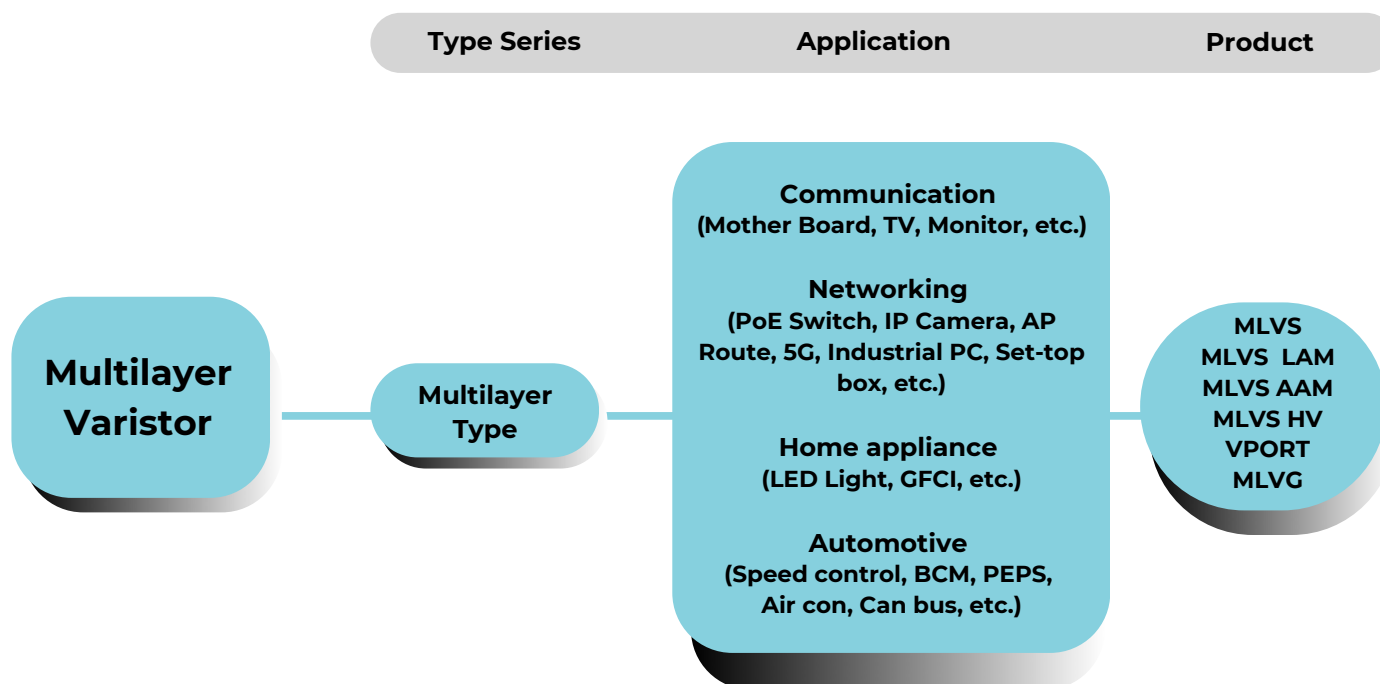
Structure	Series	Description
Multilayer Varistor	MLVS MLVS LAM  MLVS AAM  MLVS HV VPORT MLVG	The varistor body structure consists of a matrix of conductive ZNO grains separated by grain boundaries providing P-N junction semiconductor characteristics.

Over Voltage Protection

ESD Suppressor



Multilayer Varistor



Over Voltage Protection

Process & Package

Product	Process	Series	Feature
ESD Suppressor	Thick Film	EGA	- EIA 0201~0603 , Array 1206 - Low capacitance (0.2 pF typical)
		EGA AM	- EIA 0402/0603 - Low capacitance (0.2 pF typical) - Automotive grade (AEC-Q200) 
		CGA	- EIA 0201~0603 - Low capacitance (0.2 pF typical)
		CES	- EIA 0201/0402 - Ultra low capacitance (0.1 pF typical)
		TVU	- EIA Array 2510 - Low capacitance (0.2 pF typical)
	Thin Film	TFE	- EIA 0201/0402 - Ultra low capacitance (0.05 pF typical)
		TFE AM	- EIA 0201/0402 - Ultra low capacitance (0.05 pF typical) - Automotive grade (AEC-Q200) 
		TLE	- EIA 0201/0402 - Ultra low capacitance (0.05 pF typical)
		TUE	- EIA 0201/0402 - Ultra low trigger voltage - Ultra low capacitance (0.07 pF typical)

Over Voltage Protection

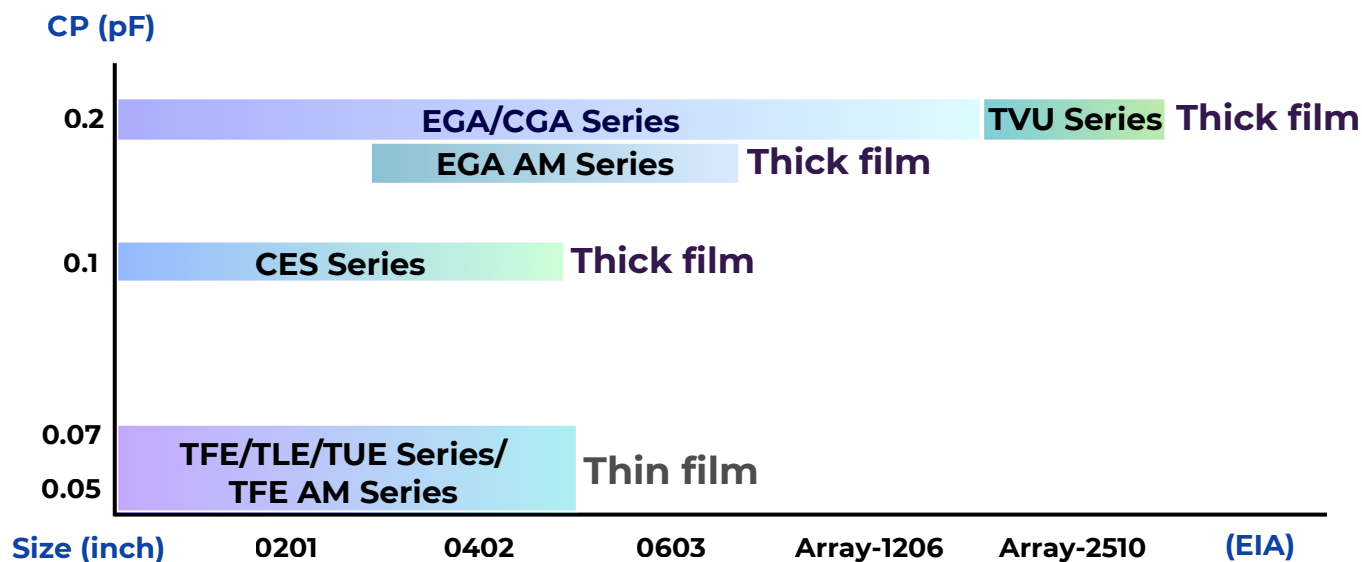
Process & Package

Product	Process	Series	Feature
Multilayer Varistor	Multilayer	MLVS	• EIA 0201~2220 • General surge / High Surge • Lead free plating termination provided good solderability characteristic
		MLVS LAM MLVS AAM	• EIA 0402~2220 • Lead free plating termination provided good solderability characteristic • Automotive grade (AEC-Q200) 
		MLVS HV	• EIA 0604/0806 • High working voltage • Lead free plating termination provided good solderability characteristic • Meet UL/cUL Certification
		VPORT	• EIA 0402/0603 • Working voltage 5V / 12V • Lead free plating termination provided good solderability characteristic
		MLVG	• EIA 0402/0603 • Low capacitance (0.5 pF typical) • Lead free plating termination provided good solderability characteristic

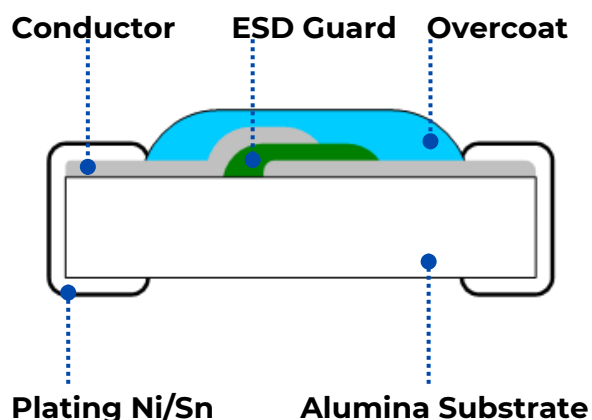
Over Voltage Protection

Competitive Product Series

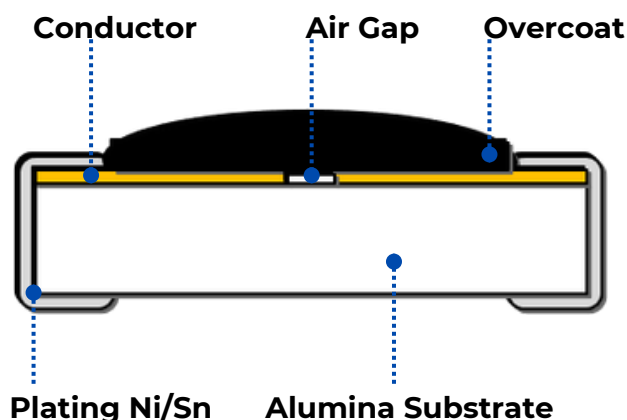
ESD Suppressor



Thick Film Structure



Thin Film Structure

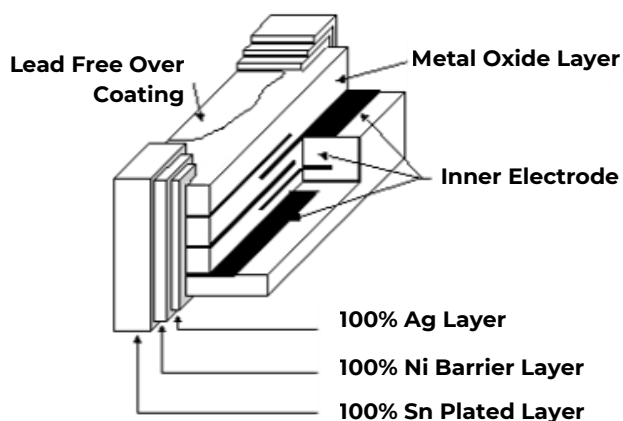
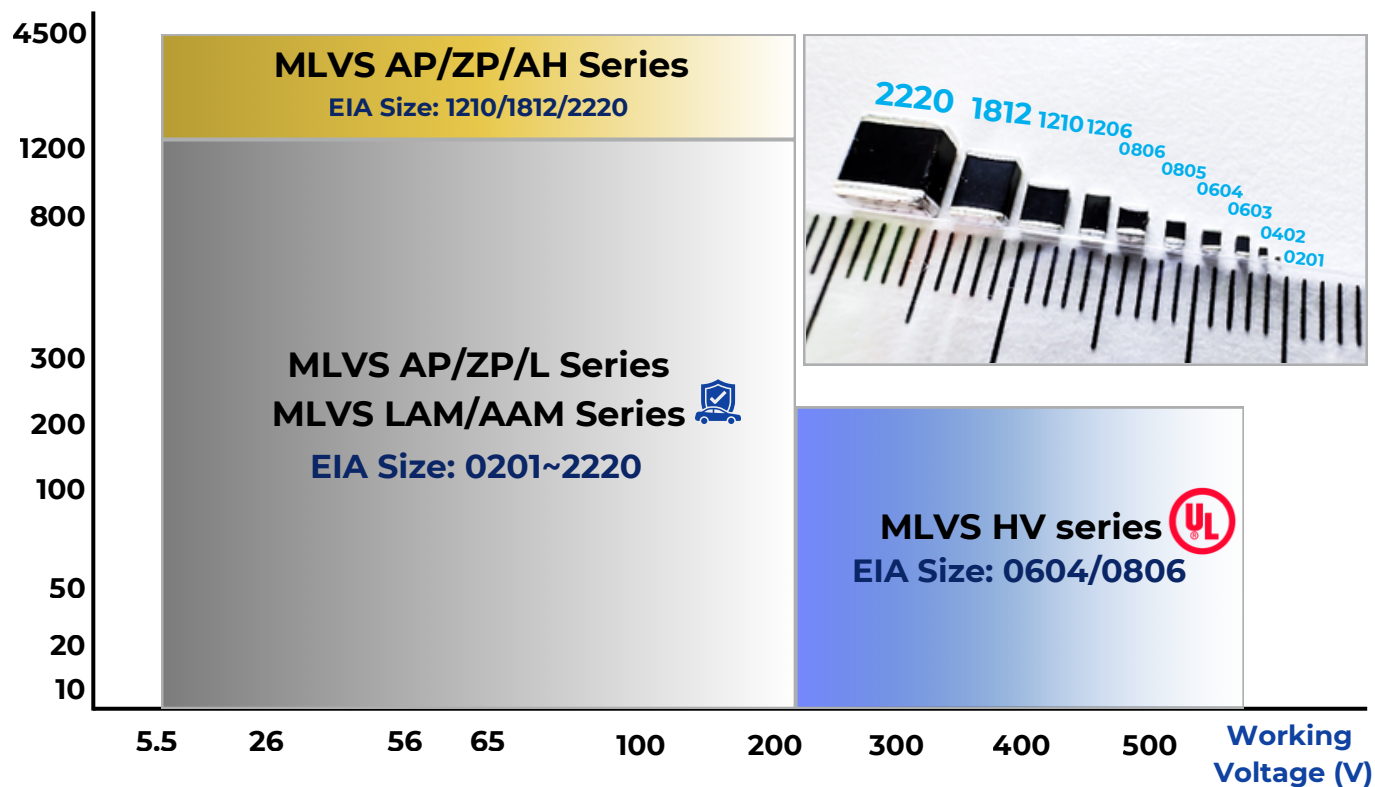


Over Voltage Protection

Competitive Product Series

Multilayer Varistor

Surge (A)  Automotive grade (AEC-Q200)



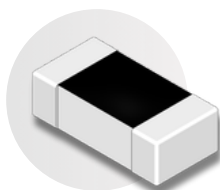
Lead Free Over Coating



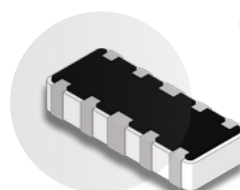
- Special coating technology (patent)
- Provides good reliability and solderability

Over Voltage Protection

ESD Suppressor - Product Line Up



EGA CGA CES
TFE TLE TUE
EGA AM
TFE AM



TVU

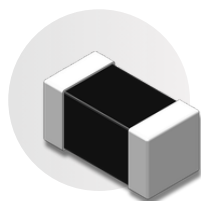


Automotive grade (AEC-Q200)

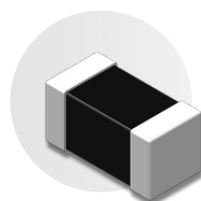
Series	Structure	Size (inch)					Rated Voltage (V)							Capacitance (pF)			AEC-Q200
		0201	0402	0603	Array-1206	Array-2510	5	6	7	12	15	24	30	0.05	0.10	0.20	
EGA	Thick Film																
CGA																	
CES																	
TVU																	
EGA AM																	
TFE	Thin Film																
TLE																	
TUE																	
TFE AM																	

Over Voltage Protection

Multilayer Varistor - Product Line Up



MLVS MLVG
VPORT



MLVS LAM
MLVS AAM
MLVS HV



Automotive grade (AEC-Q200)

Series	Size (inch)										AEC-Q200
	0201	0402	0603	0604	0805	0806	1206	1210	1812	2220	
MLVS											
MLVS LAM MLVS AAM											
MLVS HV											
VPORT											
MLVG											

Series	Working Voltage (V)																																	
	5.5	7	9	11	12	14	17	18	20	22	24	26	29	30	31	36	38	42	45	48	56	60	63	65	85	100	200	225	320	385				
MLVS																																		
MLVS LAM MLVS AAM																																		
MLVS HV																																		
VPORT																																		
MLVG																																		

Series	Peak Current (A)																
	5	10	20	30	50	100	160	200	300	400	450	500	800	1200	4000	4500	5000
MLVS																	
MLVS LAM MLVS AAM																	
MLVS HV																	
VPORT																	
MLVG																	

INPAQ Integrated Components Solution

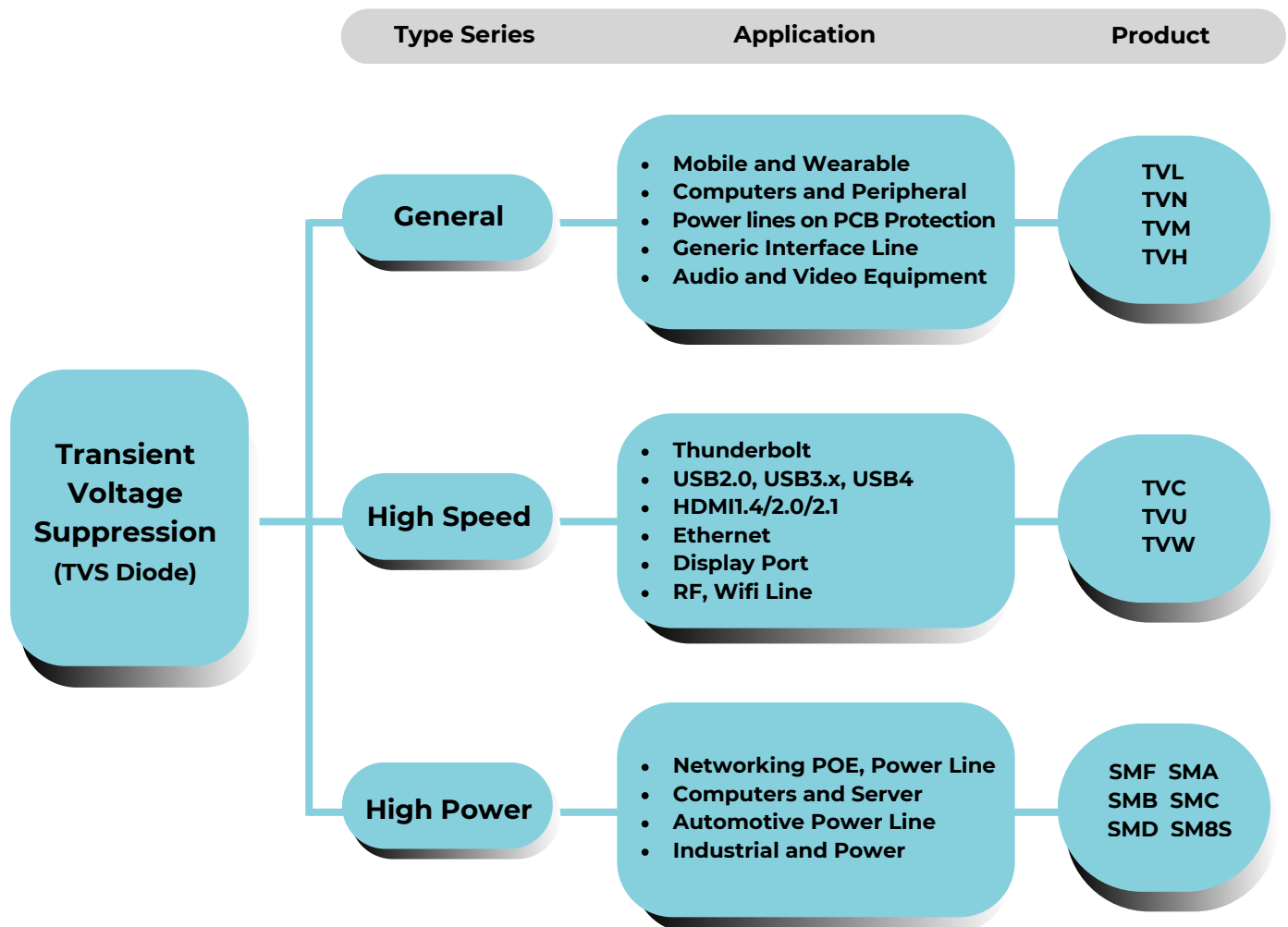
Over Voltage Protection

INPAQ's **Transient Voltage Suppression Diode (TVS)** focused on provide **ESD** and **EOS protection**. We provide a wide range of products focused on three application areas.

Product	Type	Series	Description
Transient Voltage Suppression Diode(TVS)	General	TVL/TVN/TVM/TVH	TVS diode products are designed to protect power/control line or low speed interfaces on electronic equipment against ESD (Electrostatic Discharge) IEC 61000-4-2 and EOS (Electrical Over Stress 8/20μs) IEC 61000-4-5.
	High Speed	TVC/TVU/TVW	TVS diode products are designed to protect high speed interfaces on electronic equipment against ESD (Electrostatic Discharge) IEC 61000-4-2. Featuring super/ultra-low capacitance.
	High Power	SMF/SMA/SMB/SMC /SMD/SM8S	High Power TVS Diode products are designed to protect electronic circuits against EOS (Electrical Over Stress 10/1000μs) , such as from lightning and inductive load switching.

Over Voltage Protection

Transient Voltage Suppression Diode (TVS Diode)

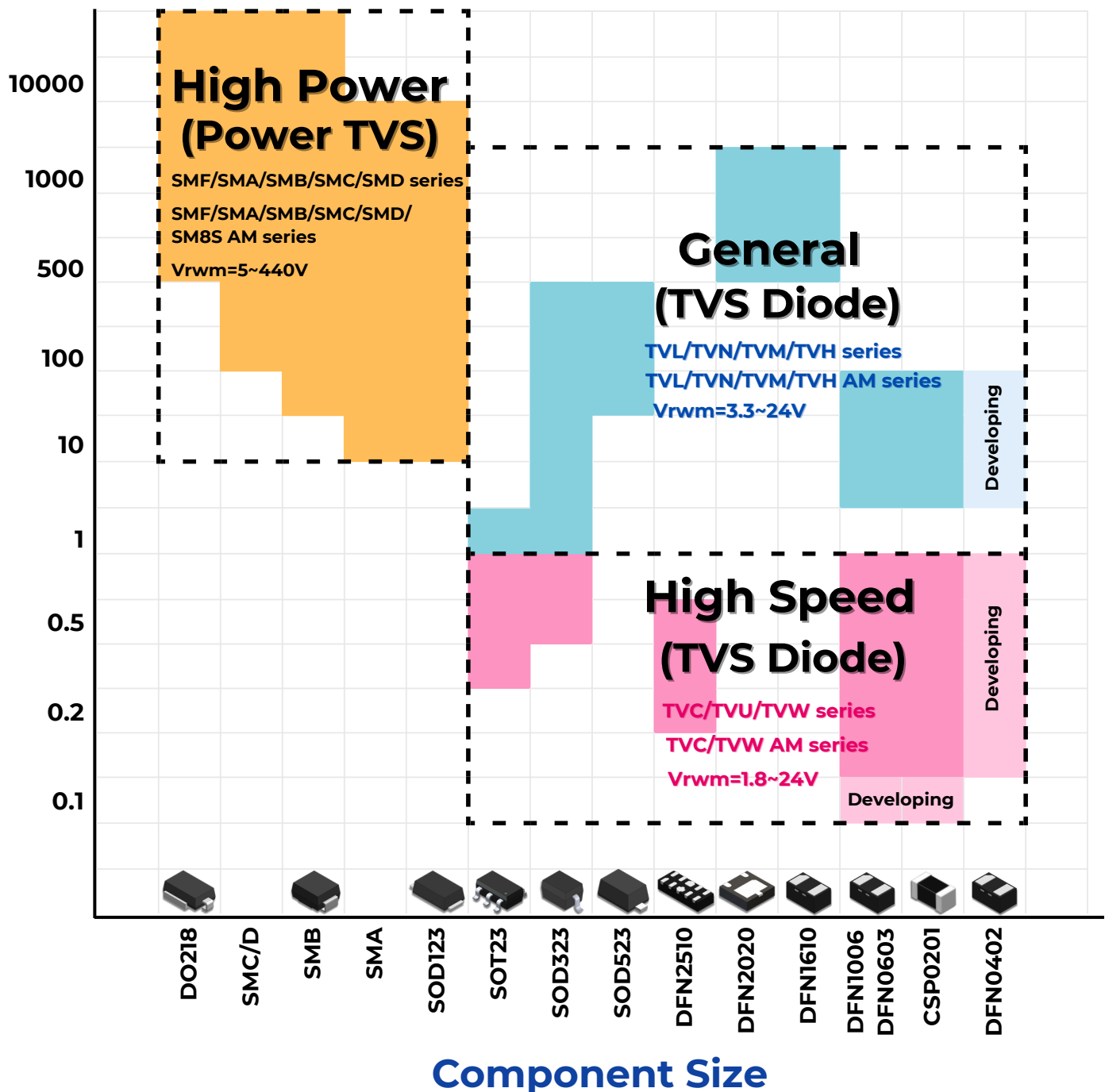


Over Voltage Protection

Competitive Product Series

Transient Voltage Suppression Diode (TVS Diode)

Capacitance (pF)

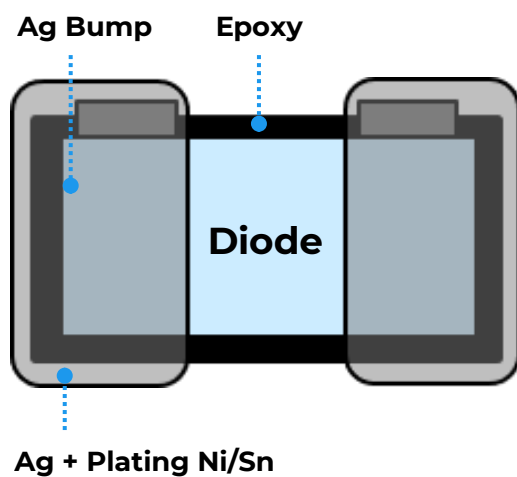


Over Voltage Protection

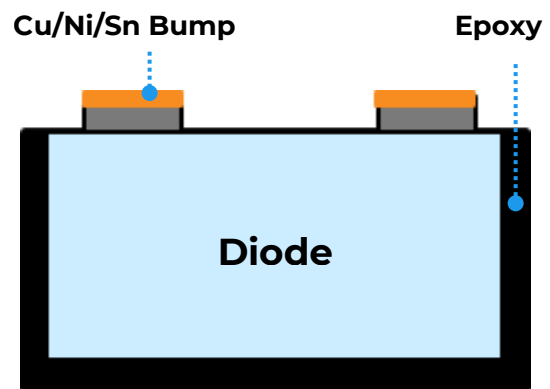
Competitive Product Series

Transient Voltage Suppression Diode (TVS Diode)

End-Cap Type



DFN Type



Chip Scale Package (CSP)

- Wafer design ability
- In-house assembly
- Stable process
- Excellent solderability
- High production capacity
- 0201 package size

Over Voltage Protection

TVS Diode - Product Line Up

TVS Diode



Automotive grade (AEC-Q101)

Appearance	Size Code (mm)	Voltage										AEC-Q101
		(V)										
		1.0	1.5	3.3	4.5	5	7	15	20	25	30	
	CSP0201 (inch)											
	DFN0603											
	DFN0603											
	DFN1006											
	DFN1006											
	DFN1610											
	DFN2020											
	DFN2510											
	DFN2510											
	SOD523											
	SOD523											
	SOD323											
	SOD323											
	SOT23											
	SOT23											
	SOT143											
	SOT523											

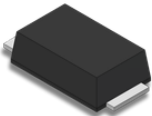
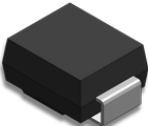
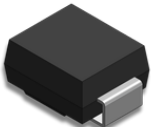
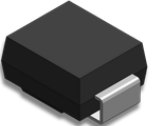
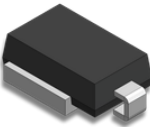
Over Voltage Protection

TVS Diode - Product Line Up

Power TVS



Automotive grade (AEC-Q101)

Appearance	Size Code	Voltage							Peak Power	Series	AEC-Q101
		(V)									
		5	50	100	200	300	400	440	(W)		
	SOD123								200	SMFJ-T	
									200	SMFJ-P	
									200	SMFJ-AM	
									400	SMF4J-T	
									400	SM4FJ-P	
									400	SM4FJ-AM	
	SMA								400	SMAL-T	
									400	SMAL-P	
									400	SMAJ-AM	
									600	SMA6L-T	
	SMB								600	SMBL-T	
									600	SMBJ-P	
									600	SMBJ-AM	
									1000	1.0SMBL-T	
									1500	1.0SMBJ-P	
	SMC								1500	SMCL-T	
									1500	SMCL-P	
									1500	SMCJ-AM	
									3000	SMDL-T	
									3000	SMDJ-P	
									3000	SMDJ-AM	
									5000	5.0SMDL-T	
									5000	5.0SMDJ-P	
									5000	5.0SMDJ-AM	
	DO218								6600	SM8S-AM	

INPAQ Integrated Components Solution

EMI Suppression Filter

Electronic devices generate electromagnetic interferences, which can affect the proper functioning of electronic devices and systems.

The coming EMI/RFI noise interference issues encountered in several applications, **INPAQ** provides whole range of **Common-Mode Choke** series.

 **Automotive grade (AEC-Q200)**

Structure		Series	Description
Common Mode Choke	Multilayer	MCM	Powerful components with composite co-fired materials to solve EMI problem for high speed differential signal transmission line as USB, LVDS, HDMI, MIPI and Ethernet without distortion to high speed signal transmission.
		MCM_W 	
		MCA	Powerful components with composite co-fired materials to solve EMI problem for high speed differential signal transmission line as USB and Ethernet without distortion to high speed signal transmission.
		HCM	Ultra High Speed Chip Common Mode Choke, HCM series adopts internally unique multilayer ceramic/ferrite co-firing technologies and higher cut-off frequency design for miniaturized size of EMI filter product development. for higher speed I/O of tablet PC/NB & MB.
	Wire-Wound	SCM	Powerful components with high common mode impedance at high frequency perform outstanding noise suppression, also realize miniature size and low profile.

INPAQ Integrated Components Solution

EMI Suppression Filter

Electronic devices generate electromagnetic interferences, which can affect the proper functioning of electronic devices and systems.

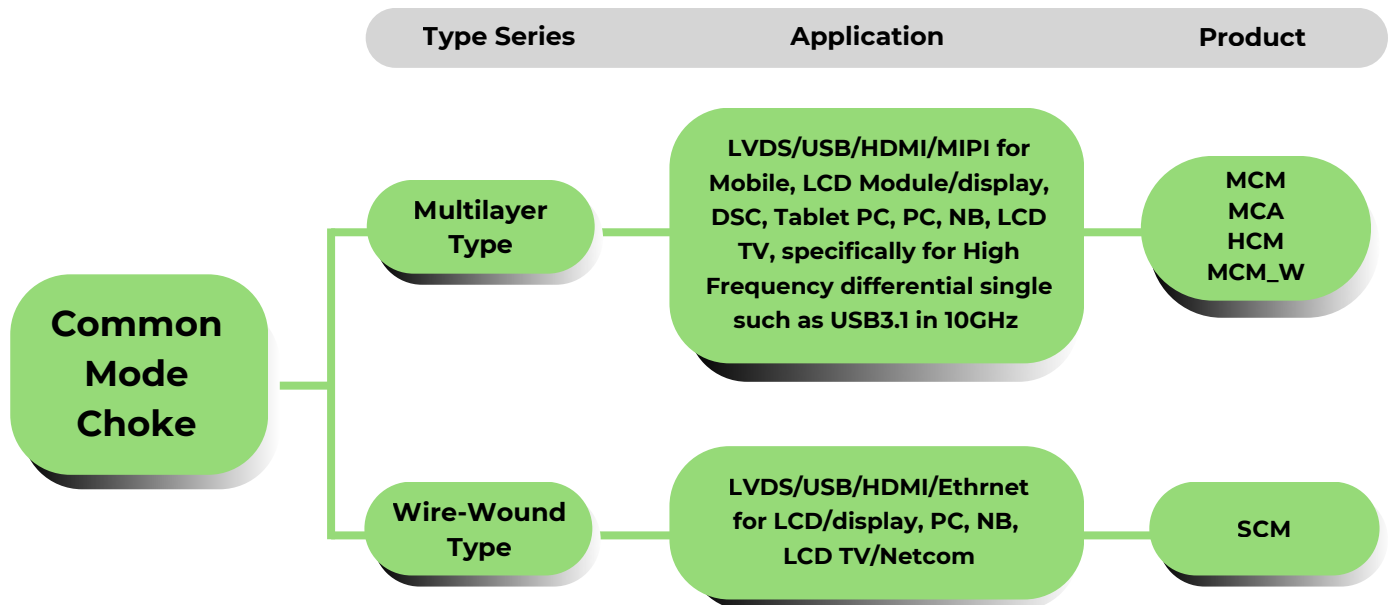
The coming EMI/RFI noise interference issues encountered in several applications, **INPAQ** provides whole range of **Multilayer Chip Bead** series.

 **Automotive grade (AEC-Q200)**

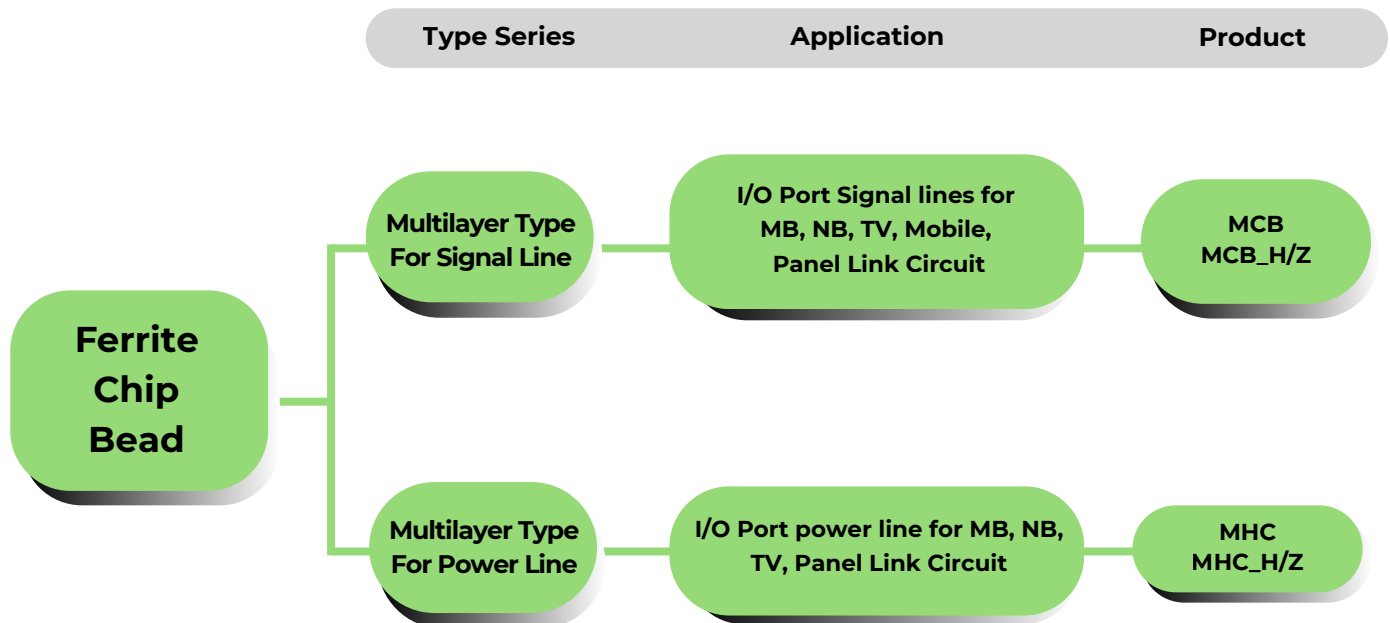
Structure	Series	Description
Ferrite Bead	MCB	Filtering between analog and digital circuitry, clock generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computer, printers, VCRs, TVs and portable telephones.
	MCB_H/Z 	
	MHC	Combination of high frequency noise suppression with capability of handling high current The current rating up to 8 Amps with low DCR
	MHC_H/Z 	

EMI Suppression Filter

Common Mode Choke

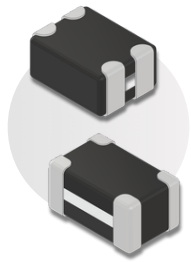


Ferrite Chip Bead



EMI Suppression Filter

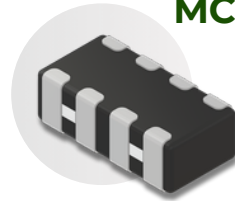
Common Mode Choke - Product Line Up



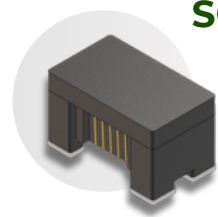
MCM
MCM-W



HCM



MCA



SCM

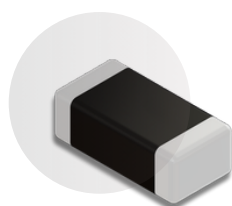


Automotive grade (AEC-Q200)

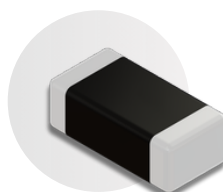
Category	Series	Feature	Size (mm)	Size (inch)	Impedance Range (Ω) @100MHz	Rated Current (A)	AEC-Q200
Multialyer	MCM	High Speed Type	1012	0405	67~120	300mA	
			2012	0805	67~220	300mA~400mA	
			3216	1206	90~120	500mA	
	MCM-W	High Speed Type	1012	0405	67~120	300mA	
			2012	0805	67~220	300mA~400mA	
	HCM	Ultra High Speed Type	0806	03025	20~90	100mA~160mA	
			1012	0405	15~90	100mA	
			2012	0805	50~120	100mA~200mA	
	MCA	High Speed Array Type	2012	0805	90~120	300mA~400mA	
			3216	1206	90~180	300mA~400mA	
Wire-Wound	SCM	High Speed Type	2012	0805	67~1000	100mA~400mA	

EMI Suppression Filter

Ferrite Chip Bead - Product Line Up



MCB-S
MCB-S/B
MCB-P
MCB-H



MCB_H/Z
MCB-H_H/Z

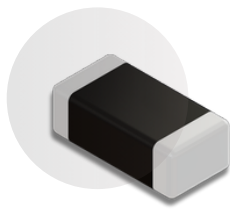


Automotive grade (AEC-Q200)

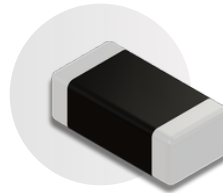
Series	Feature	Size (mm)	Size (inch)	Impedance Range (Ω) @100MHz	Rated Current (mA)	AEC-Q200
MCB-S/B	Signal Line Type (Standard)	0603	0201	10~1000	100mA~500mA	
		1005	0402	10~1800	150mA~800mA	
		1608	0603	10~2500	200mA~800mA	
		2012	0805	30~3000	300mA~800mA	
		3216	1206	50~2000	200mA~800mA	
		3225	1210	60~90	800mA	
MCB-P	Signal Line Type (Low DCR)	0603	0201	10~1000	200mA~1000mA	
		1005	0402	10~70	780mA~1800mA	
MCB-H	Signal Line Type (High Speed)	1005	0402	22~220	200mA~800mA	
		1608	0603	20~1000	200mA~600mA	
		2012	0805	120~600	200mA	
MCB_H/Z	Signal Line Type (Standard)	1005	0402	70~1800	200mA~600mA	
		1608	0603	120~2500	150mA~800mA	
		2012	0805	120~2000	200mA~800mA	
		3216	1206	1500~200	500mA~700mA	
MCB-H_H/Z	Signal Line Type (High Speed)	1005	0402	75~220	300mA	
		1608	0603	20~1000	200mA~800mA	
		2012	0805	2200	200mA	

EMI Suppression Filter

Ferrite Chip Bead - Product Line Up



MHC-S
MHC-P



MHC_H/Z
MHC-P_H/Z



Automotive grade (AEC-Q200)

Series	Feature	Size (mm)	Size (inch)	Impedance Range (Ω) @100MHz	Rated Current (mA)	AEC-Q200
MHC-S	Power Line Type (Standard)	0603	0201	22~33	1500mA~1800mA	
		1005	0402	10~120	1500mA~3000mA	
		1608	0603	10~1000	800mA~4000mA	
		2012	0805	22~1500	1000mA~6000mA	
		3216	1206	30~1200	1000mA~6000mA	
		3225	1210	60~1000	1500mA~2000mA	
		4516	1806	60~850	1500mA~6000mA	
		4532	1812	120~1300	3000mA~6000mA	
MHC-P	Power Line Type (Ultra Low DCR)	0603	0201	80~120	900mA~1000mA	
		1005	0402	33~600	900mA~3000mA	
		1608	0603	22~1000	1000mA~8000mA	
MHC_H/Z	Power Line Type (Standard)	1005	0402	10~120	1000mA~2500mA	
		1608	0603	30~1000	800mA~3000mA	
		2012	0805	30~1500	1000mA~4000mA	
		3216	1206	50~600	1500mA~3500mA	
		3225	1210	1000	2000mA	
		4516	1806	60~1000	1500mA~6000mA	
		4532	1812	680	4000mA	
MHC-P_H/Z	Power Line Type (Ultra Low DCR)	1608	0603	26~600	1300mA~6000mA	

Application Guide

Mobile Phone



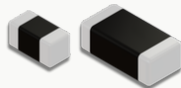
Camera

SD Card

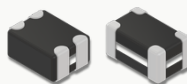
USB

Display

EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection
ESD TVS
TVC/TVW/TVL Series

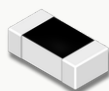


RF Front End

RF Inductor
Multilayer Ceramic RF Inductor
MCI Series



Over Voltage Protection
ESD Suppressor
EGA/TFE/TUE Series



Wireless Connectivity

RF Inductor
Multilayer Ceramic RF Inductor
MCI Series



Over Voltage Protection
ESD Suppressor
EGA/TFE/TUE Series



PMIC

Power Charge

SMD Power Inductor
Mini Molding Power Inductor
WIP Series

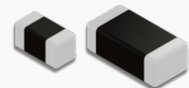


Application Processor

Speaker

Microphone

EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection
ESD TVS
TVL/TVN Series



Application Guide

Wearable

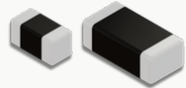


Camera

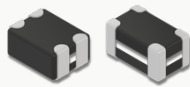
USB

Display

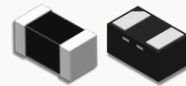
EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection
ESD TVS
TVC/TVW/TVL Series



RF Front End

RF Inductor
Multilayer Ceramic RF Inductor
MCI Series



Over Voltage Protection
ESD Suppressor
EGA/TFE/TUE Series



Wireless Connectivity

RF Inductor
Multilayer Ceramic RF Inductor
MCI Series



Over Voltage Protection
ESD Suppressor
EGA/TFE/TUE Series



PMIC

Power Charge

SMD Power Inductor
Mini Molding Power Inductor
WIP Series

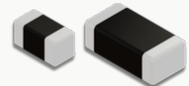


Application Processor

Speaker

Microphone

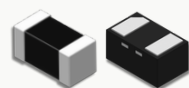
EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection
ESD TVS
TVL/TVN Series



Application Guide

Networking



RF Front End

RF Inductor
Multilayer Ceramic RF Inductor
MCI Series



RF Inductor
Wire-wound Ceramic RF Inductor
WCI Series



Over Voltage Protection
ESD Suppressor
EGA/TFE/TUE Series



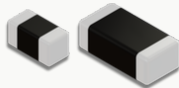
Main Board

HDMI

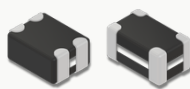
USB

LAN

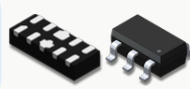
EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



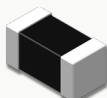
Over Voltage Protection
ESD TVS (array)
TVU/TVW Series



Over Voltage Protection
ESD TVS
TVC/TVW Series

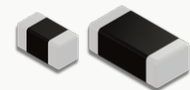


Over Voltage Protection
Multilayer Varistor
MLVS/VPORT Series



PoE

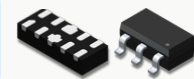
EMI Suppression Filter
Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter
Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection
ESD TVS
TVC/TVU/TVW Series



Over Voltage Protection
Power TVS
SMA/SMB/SMC/SMD Series



Over Voltage Protection
Multilayer Varistor
MLVS/VPORT Series



DC-DC power

SMD Power Inductor
Mini Molding Power Inductor
WIP Series



SMD Power Inductor
Molding Power Inductor
AIP Series



DC-In Power

Over Voltage Protection
Power TVS
SMA/SMB/SMC/SMD Series



Application Guide

TV/Monitor



I/F Tuner

Wireless Connectivity

RF Inductor

Multilayer Ceramic RF Inductor
MCI Series



RF Inductor

Wire-Wound Ceramic RF Inductor
WCI Series



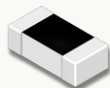
RF Inductor

Air Coil RF Inductor
LSI/LSP/LSQ Series



Over Voltage Protection

ESD Suppressor
EGA/TFE/TUE Series



DC-DC Power

SMD Power Inductor

Mini Molding Power Inductor
WIP Series



SMD Power Inductor

Molding Power Inductor
AIP Series



SMD Power Inductor

Wire-Wound with Resin Power Inductor
CSME Series



DC-In Power

Over Voltage Protection

Power TVS
SMA/SMB/SMC/SMD Series



Main Board

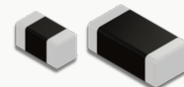
HDMI

USB

LAN

EMI Suppression Filter

Multilayer Chip Bead
MCB/MHC Series



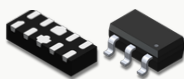
EMI Suppression Filter

Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection

ESD TVS
TVC/TUV/TVW Series



Over Voltage Protection

Multilayer Varistor
MLVS/VPORT Series



Class-D Amp

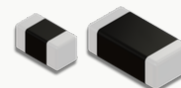
SMD Power Inductor

Molding Power Inductor
AIP Series



EMI Suppression Filter

Multilayer Chip Bead
MCB/MHC Series



Application Guide

NB/PC/Server

ThunderBolt

Main Board

Audio

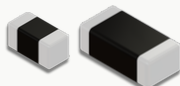
Display

USB

HDMI

EMI Suppression Filter

Multilayer Chip Bead
MCB/MHC Series



EMI Suppression Filter

Multilayer Common Mode choke
MCM/HCM Series



Over Voltage Protection

ESD TVS (array)
TUV/TVW Series



Over Voltage Protection

ESD TVS
TVC/TVW Series



SMD Power Inductor

Mini Molding Power Inductor
WIP Series



SMD Power Inductor

Molding Power Inductor
AIP Series



Wireless Connectivity

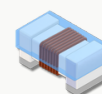
RF Inductor

Multilayer Ceramic RF Inductor
MCI Series



RF Inductor

Wire-Wound Ceramic RF Inductor
WCI Series



Over Voltage Protection

ESD Suppressor
EGA/TFE/TUE Series



DC-In Power

Over Voltage Protection

Power TVS
SMA/SMB/SMC/SMD Series



Application Guide

Module

RF Front End

RF Inductor

Multilayer Ceramic RF Inductor
MCI Series



RF Inductor

Wire-Wound Ceramic RF Inductor
WCI Series



Over Voltage Protection

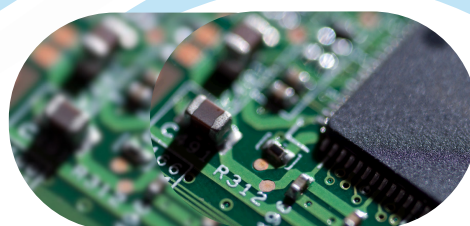
ESD Suppressor
EGA/TFE/TUE Series



DC-DC Power

SMD Power Inductor

Mini Molding Power Inductor
WIP Series

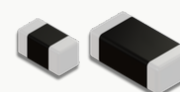


Main Board

I/O Line

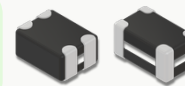
EMI Suppression Filter

Multilayer chip bead
MCB/MHC Series



EMI Suppression Filter

Multilayer Common Mode Choke
MCM/HCM Series



Over Voltage Protection

ESD TVS
TVL/TVN Series



Application Guide

Automotive



Power In

Over Voltage Protection

Power TVS

SMA/SMB/SMC/SMD/SM8S AM Series



Main Board

CAN BUS

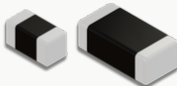
USB

LAN

EMI Suppression Filter

Multilayer Chip Bead

MCB/MHC_H/Z Series



Over Voltage Protection

ESD TVS

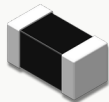
TVL/TVN/TVW AM Series



Over Voltage Protection

Multilayer Varistor

MLVS LAM/AAM Series



DC-DC Power

SMD Power Inductor

Mini Molding Power Inductor

WPA Series



SMD Power Inductor

Molding Power Inductor

APA Series



SMD Power Inductor

Wire-Wound with Resin Power Inductor

CSMEA Series



Application Guide

Shark Fin



RF Front End

RF Inductor

Multilayer Ceramic RF Inductor

MCI_H/Z Series



Over Voltage Protection

ESD Suppressor

EGA/TFE AM Series





WE CONNECT & WE PROTECT WE ARE ONE

Taiwan | China | Malaysia | Korea | Japan
USA | Canada | Australia | Germany



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