

## TOKIN PRODUCTS

# Compliance to RoHS Directive

List of compliant products and restriction status of prohibited substances



**Vol.9**

●The RoHS compliance means that we judge from EU Directive 2011/65/EU the products do not contain lead, cadmium, mercury, hexavalent chromium, PBB and PBDE, except impurities existing in natural world.  
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## Proadlizer

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Chip type/SMD		PF/A	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
		PF/B	Y	Y	Y	Y	Y	Y	Y	Production stoppage	

## Tantalum Capacitor

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Chip type/SMD	CB terminal	G/SV	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
	Face down terminal	F/SV	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
	Standard	E/SV	Y	Y	Y	Y	Y	Y	Y	Production stoppage	Compatible with SV/K series
		SV/K	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Low ESR	SV/Z	Y	Y	Y	Y	Y	Y	Y	Production stoppage	Compatible with SV/K series
	NeoCapacitor / polymer	PS/G	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		PS/L	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		PS/K	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	NeoCapacitor / polymer / CB terminal	G/PS	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	NeoCapacitor / polymer / face down terminal	F/PS	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	NeoCapacitor / polymer	PS/M	Y	Y	N	Y	Y	Y	N	Production stoppage	
	With fuse	SV/F	Y	Y	N	Y	Y	Y	N	Production stoppage	
	High-performance product	SV/H	Y	Y	N	Y	Y	Y	N	Production stoppage	
	Conventional	SV/S	Y	Y	N	Y	Y	Y	N	Production stoppage	
M/SV		Y	Y	N	Y	Y	Y	N	Production stoppage	Compatible with SV/K series	
SV		Y	Y	N	Y	Y	Y	N	Production stoppage		
Resin coated exterior type/insert	DN	Y	Y	N	Y	Y	Y	N	Production stoppage		
	DH/R	Y	Y	N	Y	Y	Y	N	Production stoppage		
With metal case/insert	H	Y	Y	N	Y	Y	Y	N	Production stoppage		

## Supercapacitor

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
SMD type	FC****ZFTBR**	FC	Y	Y	Y	Y	Y	Y	Y	Under mass production	Code ""F"" added after code ""Z"" of the conventional P.N.
	FCS****ZFTBR**	FCS	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Thin type	EDL223Z7RO-1	EDL	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
	HP*****Z*	HP	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
Resin-molded type	FM****ZF(TP**)	FM	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Metal-can type	FA****ZF	FA	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	FE****ZF	FE	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	FG(*)****ZF	FG	Y	Y	Y	Y	Y	Y	Y	Under mass production	Code ""F"" added after code ""Z"" of the conventional P.N.
	FR****ZF	FR	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	FS****ZF	FS	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	FT****ZF	FT	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	FY****ZF	FY	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Large capacitance type	HV****NF	HV	Y	Y	Y	Y	Y	Y	Y	Production stoppage	Compatible with HVZ series

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			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Large capacitance type	HVS****NF	HVS	Y	Y	Y	Y	Y	Y	Y	Production stoppage	Compatible with HVZ series
	HVZ****NF	HVZ	Y	Y	Y	Y	Y	Y	Y	Under mass production	
BOX type		FB	Y	Y	Y	Y	Y	Y	Y	Production stoppage	

## Shape Memory Alloys

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Nickel titanium alloys	(Memoally®)	MAT	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MUC	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Permanent Magnets

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Sm-Co magnets	(Lanthanet®)	LM	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Fe-Cr-Co magnets		KX-1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		KX-4	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		K-5	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Ferrite Cores

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Ferrite Cores	High-B Compound	BH1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		BH2	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		BH3	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		BH5	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		BH7	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		B40	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		BH1T	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	High-μ Compound	5H	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		7H	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		10H	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		12H	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		S15H	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Flex suppressor®

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Flame retardant type		FK2	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
		FK3	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
Halogen free type	Standard specifications	EFR	Y	Y	Y	Y	Y	Y	Y	Production stoppage	
	High magnetic permeability type	EFX	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Extra high magnetic permeability type	EFX6	Y	Y	Y	Y	Y	Y	Y	Under mass production	

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			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Halogen free type	UL94 V-0 Flame retardant type	EFF	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	UL94 V-0 Flame retardant type (Roll acceptable)	FF1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	UL94 V-0 Flame retardant type	EFF4	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	UL94 V-0 Flame retardant type · Red phosphorus free type	EFA	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	GHz band high performance type	EFG	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	GHz band high performance type (Roll acceptable)	FG1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	GHz band high performance type	EFG2	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	High magnetic permeability type (Roll acceptable)	FX2	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Extra high magnetic permeability type (Roll acceptable)	FX5	Y	Y	Y	Y	Y	Y	Y	Under mass production	
For high temp. reflow		EFH	Y	Y	Y	Y	Y	Y	Y	Under mass production	
For RFID		RM4A	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Power Inductors

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks	
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm				
SMD type	Closed magnetic circuit	SN-S3M	Y	Y	E	Y	Y	Y	Y	Y	Under mass production	
		H. DI-0520	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-0630	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-0740	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-0940	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-1040	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-1240	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		H. DI-1245G	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	H. DI-1280G	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production		
	Open magnetic circuit	SSB14	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSB15	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSB44	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSB64	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSB84	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
DIP type	Closed magnetic circuit	SBPSC	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Open magnetic circuit	SBC1 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC1 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC2 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC2 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC3 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC3 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC4 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC4 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC6 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC6 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC7 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
SBC7 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production			

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			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm				PBDE <1000ppm
DIP type	Open magnetic circuit	SBC8 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC8 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC9 (soft lead)	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBC9 (pin lead)	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBCP-87HY	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBCP-80HY	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBCP-11HY	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBCP-47HY	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SBCP-14HY	Y	Y	Y	Y	Y	Y	Y	Under mass production		
		Toroidal	OH	Y	Y	Y	Y	Y	Y	Y	Under mass production
	SHP		Y	Y	Y	Y	Y	Y	Y	Under mass production	
SMD type	Closed magnetic circuit	MPC07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPC10	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPC12	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCG07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCG10	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCH07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCH10	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCH12	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLC07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLC10	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCG05	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCG06	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCH05	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCH06	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCH07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		DPCV0760	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		DPCV1065	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		C. PI-1050	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		C. PI-1250	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		C. PI-1350	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		C. PI-1365	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		PLC-07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		PLC-10	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		PLC-12	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPLCV06	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MPCV10	Y	Y	Y	Y	Y	Y	Y	Under development	
		MPCV12	Y	Y	Y	Y	Y	Y	Y	Under development	

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## EMI Core

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			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Ring type	Toroidal cores (bare type)	ESD-R	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Toroidal cores (coated type)	ESD-R	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Toroidal cores with case	ESD-R	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Toroidal cores with snail-shaped case	ESD-R-B	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Cores suitable for a low frequency noise(High impedance type)	ESD-R-SR	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Cores suitable for a low frequency noise(Large-size ring type)	ESD-R	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Cores suitable for a low frequency noise		Y	Y	Y	Y	Y	Y	Y	Under mass production	
Snap-on type	Snap-on cores for round cables	ESD-SR	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		ESD-SR-S	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Snap-on Cores for Round Cables with High Resistance and Cable Holding Mechanism	ESD-SR-H/HL	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Flat type	Hinged,non-hinged cores for round cables	ESD-FPL	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		ESD-FPD	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Bead type	Bead cores		Y	Y	Y	Y	Y	Y	Y	Under mass production	

## DC Line Filters

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
DIP type	Common mode power line	SH	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SHO	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SBT-03W	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Common mode signal line	SBT-01W	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Toroidal cores with wound cables	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		DIP noise filters	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Common mode for telephone sets		Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Normal mode	SBT	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SNT	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Bead inductors (lead type)	B-01	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		B-02	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		B-03	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		B-06	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Bead inductors (winding type)		Y	Y	Y	Y	Y	Y	Y	Under mass production	
EMC filter	DFD	Y	Y	Y	Y	Y	Y	Y	Under mass production		
SMD type	Common mode power line	SBS9080	Y	Y	E	Y	Y	Y	Y	Under mass production	
		SBP	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		DCM5	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Common mode signal line	M-500CT	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		M-600T	Y	Y	E	Y	Y	Y	Y	Under mass production	

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## AC Line Filters

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Earth inductors	SNG series		Y	Y	Y	Y	Y	Y	Y	Under mass production	
Common mode	SC coils - standard type		Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SCR Coils high impedance type	SCR	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Large SCR series	SCR38 type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SCR47 type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SC coils - terminal base type	SC-J type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SC-GJ type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SC-JV type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SC-JS type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SC-JH type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SC coils - small type	SC-G/GS type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SC coils - compact/high-inductance type	SCF type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SC coils - high frequency type	SC-D type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SU coils	SU7VC type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SU9V/9H type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SU9VF/9HF type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SU10VFC-R type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SU coils - high frequency type	SU9VD type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SU10VD type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SU16VD type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SS coils	SSR21V/H series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSR21VS/HS series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS11VL type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS11V/H-CH type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SSB11V/H-R type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS17HB type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS17VA/HA type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS20H type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS21V type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS24V/H-CH type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		SS26V type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
SS28V/H-CH type		Y	Y	Y	Y	Y	Y	Y	Under mass production		
SSB28V/H type		Y	Y	Y	Y	Y	Y	Y	Under mass production		
SS30V type	Y	Y	Y	Y	Y	Y	Y	Under mass production			
SS35V/H type	Y	Y	Y	Y	Y	Y	Y	Under mass production			
Normal mode	HNB coils	High $\mu$ and low core loss type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	SN coils	Small and standard type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Terminal base type - J type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Terminal base type - JA type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Terminal base type - JB type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Terminal base type - W type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		Terminal base type - P1 type	Y	Y	Y	Y	Y	Y	Y	Under mass production	

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Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status Compliant : Y, Not compliant : N	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Normal mode	SN coils	Terminal base type - P2 type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
High frequency type	SHB coils	Booster coils for active filters	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Noise Filters

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status Compliant : Y, Not compliant : N	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Casing type	plastic case	LF-SF series three-phase type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		GT-SF series single-phase type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Metal box	LF series Small current type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series Small current type with screw terminal	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series Screw terminal type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series Large current type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series Three-phase type	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series For inverters	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LF series Compliant with CE marking	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LH series Low-frequency inverters	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		LH series Compliant with CE marking	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		HFP series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		GT series Screw terminal	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	GT series Faston terminal	Y	Y	Y	Y	Y	Y	Y	Under mass production		
	GT series For VCCI	Y	Y	Y	Y	Y	Y	Y	Under mass production		
	GF series	Y	Y	Y	Y	Y	Y	Y	Under mass production		
	Metal cylinder	VU series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		VC series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		VG-FPZ series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		RG series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Plastic box	MR series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MA series	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Inlet type		GL series C type	Y	Y	Y	Y	Y	Y	Y	Under mass production
GL series F, FV, FVP type			Y	Y	Y	Y	Y	Y	Y	Under mass production	
GL series H type			Y	Y	Y	Y	Y	Y	Y	Under mass production	
GL series M type			Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Sensors

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status Compliant : Y, Not compliant : N	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Thermosensors	Thermal guard OHD	OHD1-**B	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		OHD1-**M	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		OHD3-**B	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		OHD3-**M	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		OHD5R**B	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Thermal read switch TRS	TRS06	Y	Y	Y	Y	Y	Y	Y	Under mass production	

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			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
Thermosensors	Thermal read switch TRS	TRS1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		TRS3	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		TRS5	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		TRS6	Y	Y	Y	Y	Y	Y	Y	Under mass production	
Current sensors	Current transformers low current type	CT-05	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		CT-06	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		CT-07	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Zero-phase current transformer ZCT	MR-1	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MR-2	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MR-3	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MR-4	Y	Y	Y	Y	Y	Y	Y	Under mass production	
		MR-1-P5	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	Magnetic direct current sensor	LA12	Y	Y	E	Y	Y	Y	Y	Under mass production	LA12-20V21,LA12-30V21
		THS	Y	Y	E	Y	Y	Y	Y	Under mass production	THS56,THS56F,THS65,THS63F
Magnetic type proximity switch	TMRS-3020	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	
	TMRS-4001	Y	Y	Y	Y	Y	Y	Y	Y	Under mass production	

## Pyroelectric Infrared Sensor

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
	Pyroelectric infrared sensor	PS-D915	Y	Y	E	Y	Y	Y	Y	Production stoppage	
		PL-N823-01	Y	Y	E	Y	Y	Y	Y	Under mass production	
	Pyroelectric infrared sensor module	SS-201	Y	Y	E	Y	Y	Y	Y	Under mass production	
		SS-202	Y	Y	E	Y	Y	Y	Y	Under mass production	
		SS-301	Y	Y	E	Y	Y	Y	Y	Under mass production	

## Langevin Bolt-on Transducers

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
	Langevin bolt-on transducers	NBL45282H-A	Y	Y	E	Y	Y	Y	Y	Under mass production	
		NBL45402H-A	Y	Y	E	Y	Y	Y	Y	Under mass production	

## Multilayer Piezoelectric Actuators

Product Family	Product Type	Series Name	Compliance with RoHS Substance Restriction						RoHS Status <small>Compliant : Y, Not compliant : N</small>	Compliant Product Status	Remarks
			Cd <100ppm	Cr+6 <1000ppm	Pb <1000ppm	Hg <1000ppm	PBB <1000ppm	PBDE <1000ppm			
	Resin coated type	AE***F	Y	Y	E	Y	Y	Y	Y	Under mass production	
		AL***F	Y	Y	E	Y	Y	Y	Y	Under mass production	
	Metal sealed type	ASB***LF	Y	Y	E	Y	Y	Y	Y	Under mass production	
		ASL***LF	Y	Y	E	Y	Y	Y	Y	Under mass production	
		AHB***LF	Y	Y	E	Y	Y	Y	Y	Under mass production	

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## Precautions



- The names of the products and the specifications in this catalog are subject to change without notice for the sake of improvement. The manufacturer also reserves the right to discontinue any of these products. At the time of delivery, please ask for specifications sheets to check the contents in order to use the products properly and safely.
- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
- The products in this catalog are intended for use in ordinary electronic products. If any of these products are to be used in special applications requiring extremely high reliability, such as in aviation equipment and nuclear power controllers where product defects might pose a safety risk, please consult your TOKIN sales representatives.
- Though the manufacturer has taken all possible precautions to ensure the quality and reliability of its products, improper use of products may result in bodily injury, fire, or similar accident. If you have any questions regarding the use of the products in question, please consult your TOKIN sales representatives.
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TOKIN products should not be used or sold for use in the development, production, stockpiling or utilization of any conventional weapons or mass-destructive weapons(nuclear weapons, chemical or biological weapons, or missiles), or any other weapons.  
For customers in Japan  
For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.
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