

PRODUCTS CONFORMING to RoHS DIRECTIVE

Ceramic Capacitors

Categories	Series	Conforming to RoHS Directive	Remarks
SMD	-	✓	
SMD for Automobile	-	✓	
SMD Array	-	✓	
Dipped Radial	-	✓	
Mid-high Voltage(Disk with Lead Wire)	-	✓	
Ultra-high Voltage(with Metal Fitting Type Terminal)	-	✓	
High Voltage(Feed Through Type)	-	✓	



- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

EMC Components

Categories				Series	Conforming to RoHS Directive	Remarks	
Ferrite Beads	SMD	For Signal Line	Low Rdc, Wide-band	MMZ0402	✓		
				MMZ0603	✓		
				MMZ1005	✓		
				MMZ1005-E	✓		
				MMZ1608	✓		
				MMZ2012	✓		
				HFxxACB	✓		
		For Power Line	–	MPZ1005	✓		
	For Signal Line	For Signal Line	For 2 Line	MZA1210	✓		
			For 4 Line	MZA2010	✓		
		For Audio / USB1.1 Signal Line	For Suppression of Differential / Common Mode Noise		MCZ1210-D	✓	
3-terminal Filters	SMD	For Signal Line	T Type Filter	ACF	✓		
				MEM1608D	✓		
				MEM2012S	✓		
		For Wide-band	Pi Type Filter	MEM1608P	✓		
				MEM2012P	✓		
				T Type Filter	MEM2012TC	✓	
				5th T-Pi Type Filter	MEM2012W	✓	
		For Power Line	T Type Filter	ACH32C	✓		
				ACH	✓		
		SMD Array	For Signal Line	L Type Filter for 2 Line	MEA1210D	✓	
	Pi Type Filter for 3 Line				MEA2010P	✓	
	L Type Filter for 4 Line				MEA2010L	✓	
					MEA3216L	✓	
	For Cellular Phones		L Type Filter for 2 Line	MEA1210LC	✓		
				Pi Type Filter for 4 Line	MEA1608PH	✓	
				L Type Filter for 4 Line	MEA1608LC	✓	
	Supports Digital Broadcasting Signals and Foreign DVB-H		Pi Type Filter for 4 Line	MEA2010LC	✓		
				MEA1608PE	✓		
				MEA2010PE	✓		
	Common Mode Filters	SMD	For HDMI/DVI	For 2 Lines	ACM-D, ACM-H	✓	
For USB3.0/DisplayPort			For 2 Lines	TCM1210U	✓		
For HDMI/S-ATA			For 2 Lines	TCM1210H	✓		
			For 4 Lines	TCM1608H	✓		
				TCM2010H	✓		
For High-speed Differential Signal Line			For 2 Lines	TCM1210G	✓		
				TCM0605	✓		
			For 4 Lines	TCM0806G	✓		
				TCM1608G	✓		
For High-speed Differential Signal Line / General Signal Line			For 2, 3 Lines	ACM	✓		
			For 4, 6, 8 Lines	ZCYS	✓		
For CAN-BUS/FlexRay			For 2 Lines	ACT45B	✓		
For CAN-BUS / General Signal Line			For 2 Lines	ZJYS81	✓		
For General Signal Line			or 2, 4 Lines	ZJYS51	✓		
For Power Line of Automotive ECU		For 2 Lines	ACM70V/90V/12V	✓			
For Power Line	For 2 Lines	ACM	✓				
DIP	For General Signal Line / Power Line	For 2, 4, 8 Lines	ZJY	✓			
Common Mode Choke Coils	Pin Terminal /Lead	For Signal Line	Compact and Separable Bobbin Type	UF	✓		
			Compact and Separable Bobbin Type	UF	✓		
	Pin Terminal	For Power Line	Closed Magnetic Circuit Core Type	HF	✓		
			Low Profile	LH	✓		
Differential Mode Choke Coils	Radial	Standard Type Non-molded	–	SF-T	✓		
		Square Core Type	–	SF-C	✓		
	Axial	Varnished and Taped	–	SF-HP	✓		
	Pin Terminal	With Substrate	–	SF1-T	✓		

Continues on next page ▼

- ⚠
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
 - The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
 - This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
 - Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Continued from previous page

Varistors	For High-speed Differential Signal Line	SMD	-	AVF16	✓	
	Countermeasure for Surge and Static Electricity	SMD	-	AVR-M, AVRL	✓	
	For Micro-motors	Ring Type	SrTiO ₃ System	VAR-18	✓	
EMC Filters for AC Power Line(TDK-Lambda)	Single Phase, Multipurpose, Compact Type	0.5, 1, 2, 3, 6A		RSEL	✓	
		0.5, 1, 2, 3, 6A		RSAL	✓	
	Single Phase, Multipurpose, Low Profile Type	3, 6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RSEN	✓	
		3, 6, 10, 16, 20, 30, 40, 50, 60A		RSAN	✓	
	Single Phase, Wide-band, High Attenuation, Low Profile Type	3, 6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RSHN	✓	
		3, 6, 10, 16, 20, 30, 40, 50, 60A		RSMN	✓	
	Three-phase, Multipurpose, Low Profile Type	6, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RTEN	✓	
		6, 10, 20, 30, 40, 50, 60A		RTAN	✓	
		6, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RTCN	✓	
	Three-phase, Wide-band, High Attenuation, Low Profile Type	6, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RTHN	✓	
		6, 10, 20, 30, 40, 50, 60A		RTMN	✓	
	Three-phase, Wide-band, High Attenuation, Book Type	6, 10, 20, 30, 40, 50, 60, 80, 100, 150A		RTHB	✓	
	Three-phase, Wide-band, High Attenuation, Cubic Type	6, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A		RTHC	✓	
EMC Filters for AC Power Line(TDK)	For Triple-phase, Large-size Box Cased	Block Terminal	-	ZRCT, ZRGT ZRCF, ZRWT	✓	
		Screw Terminal	-	ZACT, ZAGT	✓	
	For Single-phase, Mid-size Box Cased	Block Terminal	-	ZRCS, ZRGS ZRC, ZRAC	✓	
		Screw Terminal	-	ZAC, ZAG	✓	
		Faston® Terminal	-	ZHC, ZHG	✓	
	For Single-phase, Compact-size Box Cased	Faston® Terminal	-	ZCB	✓	
		Lead Wire	-	ZGB, ZMB	✓	
		Pin Terminal	-	ZMG	✓	
Inlet-socket Type	Faston®/Lug Terminal	-	ZUG, ZUB	✓		
Clamp Filters(Ferrite Core with Case)	For Cable	With Self-holding Mechanism	-	ZCAT-V-BK	✓	
			-	ZCAT	✓	
Ferrites	Cores for EMI Suppression	High Permeability Material		HF90	✓	
		For Choke Coil / Balun Transformer	Multi-hole, Cylindrical and Rod Types	RHH, RID, R	✓	
		Bead Cores	1 Hole	BB	✓	
			6 Holes	R6H	✓	
		For Round Cable	Cylindrical	RH	✓	
			Separated Cylindrical	RU	✓	
			Toroidal(Materials: HF30, HF40, HF57, HF60, HF70)	T	✓	
			Toroidal(Materials: HS10, HS52, HS72)	T	✓	
		For Flat Cable / Flexible Substrate	Rectangular	SH	✓	
			Separated Rectangular	SU	✓	
		For ICs and Connectors	Multiple Holes Plate	MH	✓	
			Plate	SP	✓	
Sample Kits		-	-	✓		

• Faston® is a registered trademark of Tyco Electronics AMP Corp. Incorporated.



- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Inductors(Coils)

Categories		Series	Conforming to RoHS Directive	Remarks		
SMD	For High Frequency (Multilayer)	1 to 33nH	100 to 300mA	MLK0603	✓	
		1 to 100nH	100 to 500mA	MLK1005	✓	
		1 to 15nH	100 to 250mA	MLG0402Q	✓	
		0.6 to 12nH	150 to 200mA	MLG0402S	✓	
		0.2 to 100nH	60 to 600mA	MLG0603Q	✓	
		0.3 to 100nH	50 to 600mA	MLG0603S	✓	
		0.3 to 390nH	50 to 1,000mA	MLG1005S	✓	
	1 to 1,000nH	70 to 600mA	MLG1608	✓		
	For Signal Line (Multilayer, Magnetic Shielded)	0.1 to 12μH	10 to 200mA	MLF1608-J	✓	
			15 to 300mA	MLF2012-J	✓	
		0.1 to 2.2μH	15 to 150mA	MLF1005L	✓	
			10 to 25mA	MLF1005	✓	
		0.047 to 33μH	2 to 200mA	MLF1608	✓	
	0.047 to 100μH	2 to 300mA	MLF2012	✓		
	For Signal Line (Wound)	0.01 to 100μH	60 to 530mA	NLV25	✓	*
		0.01 to 470μH	25 to 450mA	NLV32	✓	*
		1 to 1,000μH	30 to 450mA	NL453232	✓	*
		0.12 to 0.82μH	280 to 550mA	NLHV25	✓	*
	For Power Line (Multilayer, Magnetic Shielded)	0.47 to 2.2μH	350 to 500mA	MLZ1005W	✓	
		0.1 to 10μH	250 to 850mA	MLZ1608	✓	
		0.1 to 47μH	170 to 1,150mA	MLZ2012	✓	
		1 to 100μH	40 to 455mA	NLFV25	✓	*
		1 to 1,000μH	20 to 750mA	NLFV32	✓	*
		1 to 330μH	45 to 800mA	NLFC453232	✓	*
		0.47 to 4.7μH	700 to 1,200mA	MLP2012	✓	
		1 to 4.7μH	700 to 1,500mA	MLP2520	✓	
		0.47 to 100μH	200 to 2,800mA	FLF3215	✓	
		0.35 to 100μH	15 to 1,200mA	GLFR1608	✓	
		1 to 22μH	180 to 950mA	CPL2508	✓	
		1 to 4.7μH	650 to 1,200mA	CPL2510	✓	
		1 to 10μH	300 to 1,300mA	CPL2512	✓	
		0.56 to 22μH	350 to 2,050mA	VLS2010E	✓	
			350 to 2,000mA	VLS2012E	✓	
		0.47 to 10μH	420 to 1,950mA	VLS201610E	✓	
			500 to 2,000mA	VLS201612E	✓	
			550 to 2,650mA	VLS252010E	✓	
			590 to 2,150mA	VLS252012E	✓	
		1 to 10μH	660 to 1,750mA	VLS252015E	✓	
		1 to 22μH	600 to 2,010mA	VLS3010E	✓	
		1 to 47μH	440 to 2,000mA	VLS3012E	✓	
			410 to 2,100mA	VLS3015E	✓	
			610 to 2,650mA	VLS4012E	✓	
		1.5 to 22μH	330 to 1,200mA	VLF3010A-1	✓	
		1 to 22μH	340 to 1,700mA	VLF3010S	✓	
		1.5 to 47μH	220 to 1,200mA	VLF3012A	✓	
		1 to 22μH	430 to 2,000mA	VLF3012S	✓	
			370 to 1,800mA	VLF3014A	✓	
		4.7μH	1,100mA	VLF3014S	✓	
		1.5 to 47μH	300 to 1,600mA	VLF4012A	✓	
		1 to 10μH	650 to 1,900mA	VLF4012S	✓	
4.7 to 10μH		900 to 1,100mA	VLF4014A	✓		
1 to 10μH	1,000 to 2,300mA	VLF4014S	✓			
10 to 33μH	410 to 780mA	VLF5010A-2	✓			
1 to 10μH	940 to 2,500mA	VLF5010S	✓			
2.2 to 10μH	800 to 1,500mA	VLF5012A	✓			
1 to 10μH	1,000 to 2,500mA	VLF5012S	✓			
1.5 to 100μH	260 to 1,700mA	VLF5014A	✓			
1 to 10μH	1,200 to 2,700mA	VLF5014S	✓			
1.0 to 330μH	670 to 9,700mA	VLF10040	✓			
	700 to 10,000mA	VLF10045	✓			
1.8 to 330μH	1,000 to 12,000mA	VLF12060	✓			
1.5 to 33μH	260 to 2,000mA	VLC4018	✓			
0.47 to 10μH	1800 to 5,400mA	VLC5020	✓			
1.5 to 33μH	1,200 to 5,500mA	VLC5045	✓			
0.5 to 15μH	1,300 to 5,700mA	VLC6020	✓			
3.3 to 15μH	2,000 to 3,200mA	VLC6038	✓			
1.5 to 150μH	600 to 5,700mA	VLC6045	✓			

Continues on next page

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Continued from previous page

SMD	For Power Line (Multilayer, Magnetic Shielded)	1.6 to 47μH	340 to 1,720mA	VLCF4018-2	✓		
		1.8 to 100μH	260 to 1,970mA	VLCF4020	✓		
		1.2 to 100μH	300 to 2,460mA	VLCF4024-2	✓		
		1.2 to 470μH	140 to 2,710mA	VLCF4028-2	✓		
		1.8 to 100μH	270 to 2,070mA	VLCF5020	✓		
		2.2 to 47μH	510 to 2,620mA	VLCF5020-1	✓		
		2.2 to 3.3μH	2,020 to 2,620mA	VLCF5020-3	✓		
		1.8 to 100μH	280 to 1,860mA	VLCF5024-2	✓		
		1.3 to 470μH	140 to 2,560mA	VLCF5028-2	✓		
		0.47 to 10μH	520 to 2,300mA	VLS252010	✓		
			590 to 2,200mA	VLS252012	✓		
		1 to 10μH	660 to 1,700mA	VLS252015	✓		
		1 to 47μH	340 to 2,200mA	VLS3012	✓		
			310 to 2,000mA	VLS3015	✓		
			390 to 1,600mA	VLS4012	✓		
		4.7 to 6.8μH	1,800 to 2,200mA	LTF5018	✓		
		1.2 to 22μH	900 to 4,200mA	LTF5022	✓		
		4.7 to 100μH	330 to 1,500mA	SLF6025	✓	*	
		4.7 to 220μH	260 to 2,500mA	SLF6028	✓	*	
		1.5 to 22μH	1,100 to 1,600mA	SLF6045	✓	*	
		3.3 to 1,000μH	130 to 1,900mA	SLF7032	✓	*	
			140 to 2,300mA	SLF7045	✓	*	
		1.5 to 22μH	1,700 to 4,000mA	SLF7055	✓	*	
		3.3 to 1,500μH	220 to 3,700mA	SLF10145	✓	*	
		1.5 to 22μH	2,400 to 6,800mA	SLF10165	✓	*	
		6 to 1,500μH	290 to 3,600mA	SLF12555	✓	*	
		2 to 220μH	1,000 to 6,200mA	SLF12565	✓	*	
		1.2 to 220μH	1,300 to 8,200mA	SLF12575	✓	*	
		1.5 to 22μH	1,800 to 4,900mA	CLF7045	✓		
		1.5 to 22μH	2,200 to 5,800mA	CLF10040	✓		
		1 to 680μH	500 to 7,000mA	VLP8040	✓		
		1 to 6.8μH	2,800 to 6,400mA	RLF7030	✓	*	
		1.9 to 10μH	5,100 to 10,500mA	RLF12545	✓	*	
		1 to 10μH	7,500 to 14,400mA	RLF12560	✓	*	
		0.2 to 1.2μH	10,000 to 23,000mA	SPM6530	✓		
		1.8 to 4.3μH	7,000 to 8,800mA	VLM10555-2	✓		
		330 to 1200nH	10,000 to 18,000mA	VLM10555-3	✓		
		90 to 150nH	3,600mA	VLB7050	✓		
		120 to 200nH	3,100mA	VLB10050	✓		
		For Power Line (Wound)	1 to 33μH	120 to 475mA	NLCV25	✓	*
			1 to 330μH	70 to 1,000mA	NLCV32	✓	*
			0.1 to 10μH	360 to 1,890mA	NLCV25T-R	✓	
0.1 to 10μH	600 to 2,850mA		NLCV32T-R	✓			
1 to 330μH	90 to 1,050mA		NLC453232	✓	*		
Radial Lead	For Power Line	10 to 5,600μH	200 to 3,600mA	SL1215	✓	*	
		150 to 2,200μH	600 to 2,100mA	SL1720	✓	*	
		470 to 15,000μH	260 to 1,500mA	SL1923	✓	*	
		1,000 to 10,000μH	410 to 1,300mA	SL2125	✓	*	
		1 to 1,500μH	160 to 5,000mA	TSL0709	✓	*	
		2.2 to 4,700μH	130 to 3,900mA	TSL0808	✓	*	
		1.0 to 15,000μH	120 to 7,700mA	TSL1112	✓	*	
		10 to 10,000μH	240 to 5,100mA	TSL1315	✓	*	
Axial Lead	For Signal Line	0.1 to 120μH	85 to 800mA	SP0203	✓	*	
		0.22 to 560μH	85 to 1,150mA	SP0305	✓	*	
		0.22 to 1,000μH	100 to 880mA	SP0406	✓	*	
	For Power Line	1 to 4,700μH	100 to 3,800mA	SP0508	✓	*	
SMD	Transponder Coils	2.61 to 7.20mH	26 to 50Ω	TPL	✓		

* "PF" at the end of a product name means that it is compliant with the RoHS Directive. Please contact us about other products.

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Transformers

Categories			Series	Conforming to RoHS Directive	Remarks	
For Power Supplies	For Switching Power Supplies	Pin Terminal Type (For Multiple Outputs Type)	-	ECO	✓	
		Pin Terminal Type	-	SRW	Some products are not RoHS compliant.	Products that are not compliant will be discontinued.
		Pin Terminal Type (Resonant Type)	-	SRX	✓	
	Choke Coils For PFC	Pin Terminal Type	-	PFC	✓	
For Pulse Transformers	For LAN	10BASE-2/5/T, 100BASE-T, 1000BASE-T, ATM25	-	TLA	✓	



- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Ferrites

		Categories		Series	Conforming to RoHS Directive	Remarks
Materials	Wide Temperature Range, DC Superposition Suitable, High Inductance Material	Material DNW45	-	DNW45	✓	
	DC Superposition Suitable High Inductance Material	Material DN45	-	DN45	✓	
	Low THD Material	Materials DN70	-	DN70	✓	
	Wide Temperature Range and High Permeability Materials	Material H5C4	-	H5C4	✓	
	Wide Temperature Range, Low Loss Power Material	Material PC95	-	PC95	✓	
	Low Loss Material for Power Supply	Material PC47	-	PC47	✓	
	High Saturation Flux Density Material	Material PC33	-	PC33	✓	
	High Permeability Materials	Material PC90	-	HF90	✓	
Cores for Transformers / Choke Coils / Filters	For Main Transformers of Power Supplies / Line Filters / Smoothing Chokes	Materials: PC33, PC40, PC44, PC47, PC50, PC95, HS10, HS52, HS72	-	E, EI, EE, EF, EER, ETD, EC, PQ, LP, EPC, EP, RM, ET, UU, FT, T, Planar Cores, SMD Cores	✓	
	For High Power	Materials: PC40, PE22	-	T, UU, UI, EC, EIC, EE, EI, DT, PQ, PM, SP	✓	
	For Transmitting Transformers / Filters	Materials: H5A, H5C2, H5C3, H5C4, PC40, PC44, PC50	-	P, RM, EP, T, SMD Cores	✓	
	For Coils	-	-	DR, FT, THP, P, TH	✓	
	For Choke Coil / Balun Transformer	Materials: L2H, L4, L5, L6, L7H, Q1C, Q5F, M5E, M9, M11, V5F	-	RHH, RID, R	✓	
	For Common Mode Filter (Ni-Zn)	Materials: L2H, L4, L5, L6, L7H, Q1C, Q5F, M5E, M9, M11, V5F	-	T	✓	
Cores for EMI Suppression	Bead Cores	1 Hole	-	BB	✓	
		6 Holes	-	R6H	✓	
	For Round Cable	Cylindrical	-	RH	✓	
		Separated Cylindrical	-	RU	✓	
		Toroidal(Materials: HF30, HF40, HF57, HF60, HF70)	-	T	✓	
		Toroidal(Materials: HS10, HS52, HS72)	-	T	✓	
	For Flat Cable / Flexible Substrate	Rectangular	-	SH	✓	
		Separated Rectangular	-	SU	✓	
	For ICs and Connectors	Multiple Holes Plate	-	MH	✓	
		Plate	-	SP	✓	
Sample Kits	-	-	-	✓		
For Ultrasonic Applied Equipment	PI Type Ferrite Magnetostrictive Vibrators	-	-	V2	✓	
For Electrolysis	Ferrite Electrodes	-	-	N102	✓	
For High Frequency Welding	Impeder Cores	-	-	IPH	✓	

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Noise Suppressing Sheets/Magnetic Sheets/Radio Wave Absorbers

Categories				Series	Conforming to RoHS Directive	Remarks
Flexield	For Noise Suppression	-	-	IRJ, IFL, IRE	✓	
	For RFID magnetic sheets	-	-	IRL, IRJ, IFL, IBF	✓	
Radio Wave Absorbers	For Anechoic Chambers / For Microwave Anechoic Chambers / Thin Type	-	-	IP, IP-BX, ICM, IB, IS, IS-SM, ICT, IR, ISF, IJ, ITB	✓	

Sensors

Categories				Series	Conforming to RoHS Directive	Remarks
NTC Thermistors	SMD	-	-	NTCG	✓	
	Assembly Products	Epoxy Resin Case Type / ABS Resin Case Type / Oil Temperature Sensors	-	NTCGP, NTCDP	✓	
	Axial Lead	Glass-sealed	-	NTCDS	✓	
Humidity Sensors	Unit Type	Circuit Built-in	-	CHS	✓	Please contact us for more details.
	Element Type	Variable Resistance Type	-	CHS-XS	✓	
Surface Potential Sensors	Feed-back Type	-	-	EFS	✓	Please contact us for more details.
Toner Concentration / Residual Volume Sensors	Permeability Sensing Type	With Voltage Control	-	TS-L, TS-A, TS-K	✓	
Powder Level Sensors	Piezoelectric Type	-	-	LTS, TSP	Partially Compliant Product	Please contact us for more details.
Door Open / Shut Sensors	Reed Switch Built-in	-	-	PCSW	Partially Compliant Product	Please contact us for more details.

Actuators

Categories				Series	Conforming to RoHS Directive	Remarks
Miniature Plungers	Micro-current Driven Electromagnetic Type	-	-	MA	✓	
Ultrasonic Nebulizer Units	For Mist Generating System	-	-	NB	Partially Compliant Product	Please contact us for more details.

Buzzers / Receivers

Categories				Series	Conforming to RoHS Directive	Remarks
Electromagnetic Buzzers	Pin Terminal	Without Oscillator Circuit	-	SD	✓	
		With Oscillator Circuit	-	SDC	✓	
	SMD	Without Oscillator Circuit	-	SDR	✓	
Piezoelectric Buzzers	Pin Terminal /Lead	Without Oscillator Circuit	-	PS	✓	
		With Oscillator Circuit	-	PB	✓	
Piezoelectric Receiver	Lead	Without Oscillator Circuit	-	RU	✓	

Piezoelectronic Products

Categories				Series	Conforming to RoHS Directive	Remarks
Ceramic Filters	Lead	10.7MHz	-	FFE	✓	
Ceramic Resonators	SMD	4.0 to 50MHz	-	CCR	✓	
	Lead	3.45 to 50MHz	-	FCR	✓	

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Recording / Reproducing Heads

Categories			Series	Conforming to RoHS Directive	Remarks	
Magnetic Recording Heads	For GMR/LMR HDD	HGA	-	✓	Please contact us for more details.	
	For GMR/PMR HDD	HGA	-	✓	Please contact us for more details.	
	For TMR/LMR HDD	HGA	-	✓	Please contact us for more details.	
	For TMR/PMR HDD	HGA	-	✓	Please contact us for more details.	
	For AMR/LMR LTO	Tape head	-	✓	Please contact us for more details.	
	For VCR	1/2 Inch	For Audio Control and Audio Erasing	-	✓	Please contact us for more details.
			Low Cost Full Track Erase Head for VCR	-	✓	Please contact us for more details.
For FDD	3.5 Inch	-	✓	Please contact us for more details.		
Thermal Print Heads	For Barcode Printers, and Label Printers		BHF, BHP	✓		
	For Long-life Barcode Printers, and Label Printers		BWF, BWP	✓		
	For Cards and Hard Media		BHC, BVC	✓		
	New products	"Light" Series		✓		
	New products	"Slim" Series		✓		
	New products	"SESTRO" Series		✓		
	New products	"Preference" Series		✓		



- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

Semiconductors

Categories				Series	Conforming to RoHS Directive	Remarks
NAND Flash Memory Controller	PCMCIA, ATA Interface Type	For Embedded Systems, Silicon Disk, CompactFlash Card	-	RA4	✓	
			-	RA6	✓	
			-	RA7	✓	
			-	RA8	✓	
			-	RB4	✓	
	Serial ATA(SATA) Interface Type	For Embedded Systems/ SATA NAND Modules, SATA Silicon Disk	-	RS1	✓	
	For Home Information Appliances: e.g. Netbooks, Blu-ray Disc Devices / SATA NAND Modules, SATA Silicon Disks	-	RS2	✓		
Memory Bus Interface Type	For Embedded Systems, Silicon Storage, Flash Memory Modules	-	XR	✓		
GBDriver CF (CompactFlash) Card for Industrial Applications	CompactFlash Card Type I	For Game System, Factory Automation Systems, Measuring Instruments, POS Systems, Medical Instruments	-	CF Card CFGA6 Series	✓	
			-	CF Card CFG8B Series	✓	
	Parallel ATA(PATA) Silicon Disks 2.5-inch	For Game System, Factory Automation Systems, Measuring Instruments, POS Systems, Medical Instruments	-	GBDisk RA6 Series (SDGA6B Series)	✓	
			-	GBDisk RA8 Series (SDG8B Series)	✓	
	Serial ATA(SATA)II Gen.2 :3.0Gbps Silicon Disks 2.5-inch	For Thin Client PCs, Data Servers/ATMs, Banking Terminals/Station Service Equipment/POS Systems/ Medical Instruments	-	GBDisk RS1 Series (SDGS1 Series)	✓	
			-	GBDisk RS2 Series (SDG2A Series)	✓	

Display

Categories				Series	Conforming to RoHS Directive	Remarks
Organic Electroluminescence Display	Passive Matrix	Mono-color Area-color Type	-	UEL	✓	

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
- This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
- Please note that these descriptions are subject to change without notification due to improvements or other reasons.

RF Components

Categories				Series	Conforming to RoHS Directive	Remarks
Dielectric Filters/ Duplexers	For Cellular Phones/ Satellite Radio/ Wireless LAN	-	-	CF	✓	
Diplexers	For Cellular Phones / Wireless LAN	-	-	DPX	✓	
Band Pass Filters	For Cellular Phones / Wireless LAN / Bluetooth / Digital Cordless	-	-	DEA	✓	
	For Wireless LAN / Bluetooth	-	-	DEA	✓	
Low Pass / High Pass Filters	Low Pass: For Noise Suppression / Cellular Phones / PHS / Wireless LAN, High Pass: For 2400 to 2484MHz	-	-	DEA	✓	
Baluns	For Cellular Phones / Wireless LAN	-	-	HHM	✓	
	-	Thin film	-	TCM	✓	
Couplers	For Cellular Phones / Wireless LAN	Single-band	-	HHM22, HHM24, HHM26	✓	
	For Cellular Phones	Dual-band	-	HHM23	✓	
Circulators / Isolators	For Cellular Phones	-	-	CU	Partially Compliant Product	Please contact us for more details.
	Others	-	-	CU	Partially Compliant Product	Please contact us for more details.
Antennas	For Wireless LAN / Bluetooth	Dielectric	-	CABPB	✓	
		Multilayer	-	ANT	✓	

Network Related Products

Categories				Series	Conforming to RoHS Directive	Remarks
For LAN	Pulse Transformers / LC Modules	10BASE-2/5/T, 100BASE-T, 1000BASE-T, ATM25	-	TLA	✓	

Magnets

Categories				Series	Conforming to RoHS Directive	Remarks
Ferrite Magnets	Materials	-	-	FB	✓	
Nd-Fe-B Type Magnets	Materials	-	-	NEOREC	✓	
Sm-Co Type Magnets	Materials	-	-	REC	✓	
Nd-Fe-B Type Plastic Bonded Magnets	Materials	-	-	CM	✓	
Ferrite Type Rubber Bonded Magnets	Materials	-	-	BQ	✓	

Power Supplies

Categories				Series	Conforming to RoHS Directive	Remarks
AC Input	-	-	-	-	Partially Compliant Product	Please contact TDK-Lambda for more details.
DC to DC Converters	-	-	-	CC-E	✓	Please contact TDK-Lambda for more details.
	-	-	-	CC	✓	Please contact TDK-Lambda for more details.
DC to AC Inverters	-	-	-	CXA	Partially Compliant Product	Please contact TDK-Lambda for more details.
Film Solar Cells	Amorphous Silicon Type	Polymer Film	-	BCS	✓	

- No Ozone-Depleting Substances (ODSs) that are restricted by the Montreal Protocol are used in our company's production processes.
- If you have any questions or would like more technical information, please go to the "Contact" section of our homepage.

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- The descriptions given in this catalogue are based on product information as of August 2011. Please contact us for information about our current products.
 - This catalogue uses only representative series names for products. In order to ensure correct and safe product usage, please request a delivery specification sheet so you can confirm detailed product characteristics.
 - Please note that these descriptions are subject to change without notification due to improvements or other reasons.