

# FDK Environmental Product LIST

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2014.07.10 V-2.3
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## Environmental Product List

“Environmental product” in this list means that electronic components comply with the “RoHS Directive” and batteries comply with the “Council Directive on batteries and accumulators containing certain dangerous substances” respectively.

### 【 Electronic Components 】 RoHS Compliant Products

- |                                                                                                                                                                                                       |                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>■ High frequency devices</li> <li>■ Microwave components</li> <li>■ Optical devices</li> <li>■ Ferrites</li> <li>■ Inductors (Coils) · Transformers</li> </ul> | <ul style="list-style-type: none"> <li>■ Power supplies</li> <li>■ EMI suppression products</li> <li>■ Piezoceramic products</li> <li>■ Hybrid modules</li> <li>■ Physical random number generators</li> </ul> |
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- “RoHS compliant products” in this list means that the products or parts do not contain any of the six hazardous substances designated by the RoHS Directive in excess of their RoHS-specified of the Directive concentration values in any homogeneous materials, which were determined by our interpretation.
- Please note, FDK does not guarantee that the above listed products comply with the laws and/or regulations enacted by each EU nation corresponding to the RoHS Directive.

### 【 Batteries 】 Batteries comply with “Council Directive on batteries and accumulators containing certain dangerous substances”

- Batteries and accumulators that complied with the “Council Directive on batteries and accumulators containing certain dangerous substances” in this list are to meet the following conditions of “EU Battery Directive 2006/66/EC”.

(Objective substances)	(Acceptable level)
Cadmium	: Containing cadmium less than 20ppm by weight of batteries and accumulators
Mercury	: Containing mercury less than 2% by weight of button cells and batteries
	: Containing mercury less than 5ppm by weight of batteries and accumulators (excluding button cells and batteries)

## Environmental Product List

### ■ High frequency devices

Product name	Series	RoHS Compliance	Sample Status	Remarks
VCO	IP	No	Available	For further information, please contact us.
	IR	No	Available	
	IT	Yes	Available	
	IU	Yes	Available	
Customized product	WB	Yes	Available	
Multilayer chip inductor	AML1005H	Yes	Available	
	AML0603Q	Yes	Available	
	AML0603E	Yes	Available	
Multilayer chip balun	AMB1608	Yes	Available	
Multilayer low pass filter	AMF1005L	Yes	Available	

### ■ Microwave components

Product name	Series	RoHS Compliance	Sample Status	
Drop-in circulator /isolator	Shielded type CB	Yes	Available	
	Carrier type CK	Partially Available	Available	For further information, please contact us.

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## Environmental Product List

### ■ Optical devices

Product name	Series	RoHS Compliance	Sample Status	Remarks
Free space optical isolator	YD-1100	Yes		For further information, please contact us.
In-line optical isolator	YD-3600-1-130S	Yes		
	YD-3600-1-148S	Yes		
	YD-3600-1-155S	Yes		
	YD-3600-1-159S	Yes		
	YD-3800-1-155	Yes		
	YD-4600-1-130S	Yes		
	YD-4600-1-148S	Yes		
	YD-4600-1-155S	Yes		
	YD-4600-1-159S	Yes		
	YD-4800-1-155	Yes		
Hybrid optical isolator	YM-5060	Yes		
	YM-6060	Yes		
Optical circulator	YC-1100-155	Yes		
	YC-1100-159	Yes		
Variable optical attenuator	YS-5010-155	Yes		
	YS-5010-159	Yes		
Optical splitter	YW-1108	Yes	Available	
	YW-1116	Yes	Available	
	YW-1132	Yes	Available	

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## Environmental Product List

### ■ Ferrites

Product name	Series	RoHS Compliance	Sample Status	Remarks
Ferrite core for TV & VTR For deflection yoke	H44	Yes	Available	
	H44F	Yes	Available	
	H44V	Yes	Available	
	DS1	Yes	Available	For further information, please contact us.
For flyback transformer	5H20	Yes	Available	
	5H30	Yes	Available	
	5H40	Yes	Available	
For rotary transformer	L52H	Yes	Available	
	L52R	Yes	Available	
	L52S	Yes	Available	
	L52M	Yes	Available	
Ferrite core for transformer & chalk coil Power ferrite	6H10	Yes	Available	
	6H20	Yes	Available	
	6H40	Yes	Available	
	6H41	Yes	Available	
	6H42	Yes	Available	
	7H10	Yes	Available	
	7H20	Yes	Available	
High permeability ferrite	2H03	Yes	Available	
	2H04	Yes	Available	
	2H06	Yes	Available	
	2H07	Yes	Available	
	2H10	Yes	Available	
	2H15	Yes	Available	
	2H15B	Yes	Available	

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## Environmental Product List

### ■ Ferrite

Product name	Series	RoHS Compliance	Sample Status	Remarks
General purpose ferrite cores (Ni-Zn ferrites) For power inductor	L58	Yes	Available	
	L46H	Yes	Available	
	L42H	Yes	Available	
	L35H	Yes	Available	
	L58H	Yes	Available	
	L33H	Yes	Available	
	L51	Yes	Available	
	L19H	Yes	Available	
	K41H	Yes	Available	
For noise filter inductor	K32	Yes	Available	
	L51	Yes	Available	
	K14	Yes	Available	
	K26	Yes	Available	
For high mold stress resistance	L52	Yes	Available	
	L39F	Yes	Available	
	L18F	Yes	Available	
	K17	Yes	Available	
	K16F	Yes	Available	
	F15F	Yes	Available	
	F14F	Yes	Available	
	F11F	Yes	Available	
For balun core	L55	Yes	Available	
	K34	Yes	Available	
	L51	Yes	Available	
	K14	Yes	Available	
For super frequency cores (over 1,000MHz)	G10	Yes	Available	
For transformer core	L68	Yes	Available	
	L62	Yes	Available	
	L61	Yes	Available	
	L58	Yes	Available	
	L42H	Yes	Available	
	K34	Yes	Available	

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## Environmental Product List

### ■ Ferrites

Product name	Series	RoHS Compliance	Sample Status	Remarks	
Ferrite core for EMI suppression Ring core	FR10.5/7.5	Yes	Available	For further information, please contact us.	
	FR11/5/9	Yes	Available		
	FR13/7/5	Yes	Available		
	FR13/7/6	Yes	Available		
	FR16/10/7	Yes	Available		
	FR16/10/10	Yes	Available		
	FR16.5/8/13	Yes	Available		
	FR19/10/10	Yes	Available		
	FR25/15/12	Yes	Available		
	FR28/16/13	Yes	Available		
	Sleeve core	FR6.8/3.7/14	Yes		Available
		FR12/8.5/15	Yes		Available
		FR13/7/12.7	Yes		Available
FR14/6/28		Yes	Available		
FR14/7/28		Yes	Available		
FR16.5/8/28		Yes	Available		
FR18/10/28		Yes	Available		
FR26/13/28	Yes	Available			
Divided core for round cable	FRC23/11/14	Yes	Available		
	FRC25/15/12	Yes	Available		
	FRC28/16/13	Yes	Available		
	FRC40/27/15	Yes	Available		
	NUS10/20	Yes	Available		
	NUS13.5/28	Yes	Available		
	NUS16/28	Yes	Available		
Core for flat cable	NQF33.5/8	Yes	Available		
	NQF33.5/10	Yes	Available		
	NQF33.5/7.4/10	Yes	Available		
	NQF40/10	Yes	Available		
	NQF40/12	Yes	Available		
	NQF45/12	Yes	Available		
	NQF50/12	Yes	Available		
	NQF58/12	Yes	Available		
	NUF33.5/12	Yes	Available		
	NUF40/12	Yes	Available		
NUF45/12	Yes	Available			

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## Environmental Product List

### ■ Ferrites

Product name	Series	RoHS Compliance	Sample Status	Remarks
EMI suppression Multi-hole core	PIC10/11.5-8	Yes	Available	For further information, please contact us.
	PIC16/6-9	Yes	Available	
	PIC20/5-16	Yes	Available	
	PIC20/11.5-16	Yes	Available	
	PIC24/6-15	Yes	Available	
	PIC20/11.5-20	Yes	Available	
	PIC38/6-25	Yes	Available	
Beads core	FR1.8/0.8/4	Yes	Available	
	FR2.4/0.7/4	Yes	Available	
	FR3.4/0.8/4.4	Yes	Available	
	FR3.4/1.1/6	Yes	Available	
	FR3.5/1.3/3	Yes	Available	
	FR3.5/1.3/5	Yes	Available	
	FR5/3/1.5	Yes	Available	
	FR6/3/2	Yes	Available	
Balun core	TF0605	Yes	Available	
	TF0706	Yes	Available	
	TF05202	Yes	Available	
	TF05204	Yes	Available	
	TF06505	Yes	Available	
	TF06510	Yes	Available	
	TF1204	Yes	Available	
	TF1305	Yes	Available	
	TF1506	Yes	Available	
	TF0803	Yes	Available	
TF0805	Yes	Available		
	TF0610	Yes	Available	

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## Environmental Product List

### ■ Inductors(Coils)/Transformers

Product name	Series	RoHS Compliance	Sample Status	Remarks
Inverter transformer for LCD backlighting	CD-T-0936 SMT9mm	Yes	Available	
	CD-T-0936S SMT9mm	Yes	Available	
	CD-T-0940 SMT9mm	Yes	Available	
	CD-T-0940S SMT9mm	Yes	Available	
	CD-T-1033A SMT10mm	Yes	Available	
	CD-T-1033AS SMT10mm	Yes	Available	
	CD-T-1034 SMT10mm	Yes	Available	
	CD-T-1034S SMT10mm	Yes	Available	
	CD-T-1034A SMT10mm	Yes	Available	
	CD-T-1034AS SMT10mm	Yes	Available	
	CD-T-1136B SMT11.8mm	Yes	Available	
	CD-T-1136BS SMT11.8mm	Yes	Available	
	CD-T-1232E SMT12mm	Yes	Available	
	CD-T-1530S SMT15mm	Yes	Available	
	CD-T-1232B SMT12mm	Yes	Available	
	CD-T-1332 SMT13mm	Yes	Available	
	CD-T-1332A SMT13mm	Yes	Available	
	CD-T-1432 SMT14mm	Yes	Available	
	CD-T-1437 SMT14mm	Yes	Available	
	CD-T-1437A SMT14mm	Yes	Available	
	CD-T-1437B SMT14mm	Yes	Available	
Multi-layer power inductor SMD type	MIPF2520	Yes	Available	
	MIPSA2520	Yes	Available	
	MIPS2520	Yes	Available	
	MIPF2016	Yes	Available	
	MIPWT3226	Yes	Available	
	MIPW	Yes	Available	
	MIP	Yes	Available	

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## Environmental Product List

### ■ Inductors (Coils) • Transformers

Product name	Series	RoHS Compliance	Sample Status	Remarks
Power inductor SMT type	CD-C-0506A	Yes	Available	
	CD-C-0506B	Yes	Available	
	CD-C-1315A	Yes	Available	
	CD-C-1315B	Yes	Available	
Choke coil	CD-C-D008B	Yes	Available	
	CD-C-D010S	Yes	Available	
	CD-C-L015	Yes	Available	
	CD-C-L020	Yes	Available	
	CD-C-L030H	Yes	Available	
Power inductor Dual type	CD-C-0506WA	Yes	Available	
	CD-C-1315WA	Yes	Available	
Noise suppression coil Common mode	NF-UI	Yes	Available	
	NF-ET (S type)	Yes	Available	
	NF-ET	Yes	Available	
	NF-KD	Yes	Available	
	NF-RH	Yes	Available	
	NF-RL (B type)	Yes	Available	
	NF-KM	Yes	Available	
	NF-KP	Yes	Available	
	NF-KR	Yes	Available	
	3-phase common mode	NF-TL	Yes	Available
NF-TP		Yes	Available	
NF-TR		Yes	Available	
For signal circuit	NF-J	Yes	Available	
	NF-DD	Yes	Available	
Core shaped radiation noise suppressor	RN603620MD	Yes	Available	
	RN80UD	Partially Available	Partially Available	For further information, please contact us.
Normal mode noise suppression coil	SL	Yes	Available	
Transformer for PBX, DSU, OCU & ISDN	DNT700B	Yes	Available	

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## Environmental Product List

### ■ Power supplies

Product name	Series	RoHS Compliance	Sample Status	Remarks
Switching power supply Customized	—			For further information, please contact us.
DC-DC converter Customized	—			For further information, please contact us.
Standard	FPER	Yes	Available	
	FPQR	Yes	Available	
	FPQN	Yes	Available	
	FPLR	Yes	Available	
	FPMR	Yes	Available	

### ■ EMI suppression products

Product name	Series	RoHS Compliance	Sample Status	Remarks
EMI suppression ferrite cable	NSC-IEEEE04/05	Yes	Available	
	NSC-IEEEE06	Yes	Available	
	NSC-LAN01	Yes	Available	
	NSC-RGB01	Yes	Available	
	NSC-USB01	Yes	Available	
	NSC-USB02	Yes	Available	
	NSC-PRN01	Yes	Available	
	NSC-TEL01	Yes	Available	
EMI suppression ferrite sheet	PE72	Yes	Available	
	PE23	Yes	Available	
	PE44	Yes	Available	
	PE45	Yes	Available	
EMI suppression heat conductive ferrite sheet	GE45B	Yes	Available	
	GE45C	Yes	Available	
	GE45D	Yes	Available	
	GE45E	Yes	Available	

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## Environmental Product List

### ■ EMI suppression products

Product name	Series	RoHS Compliance	Sample Status	Remarks
Radio wave absorber Radio wave absorption sheet	SA00SP	Yes	Available	
High-reliability rubber sheet type	SA4	Yes	Available	
	SA6	Yes	Available	
	SA10	Yes	Available	
	SA40	Yes	Available	
	SA60	Yes	Available	
	SA76	Yes	Available	
Rubber sheet type	JA4	Yes	Available	
	JA6	Yes	Available	
	JA7	Yes	Available	
	JA9	Yes	Available	
	JA12	Yes	Available	
	JA14	Yes	Available	
	JA18	Yes	Available	
	JB08	Yes	Available	
	JB1	Yes	Available	
	JB1A	Yes	Available	
	JB2	Yes	Available	
Wide band radio wave absorber	WB06	Yes	Available	
	WB1	Yes	Available	
	WB2	Yes	Available	
	WB3	Yes	Available	
	WB7	Yes	Available	
	WB20	Yes	Available	
Radio wave ferrite absorber	HT21	Yes	Available	
Ferrite powder	NB44	Yes	Available	
	NB45	Yes	Available	
Anechoic box For wide band	FABR-6613-W	Yes	Available	
	FABR-121213-W	Yes	Available	
For single frequency	FAB333	Yes	Available	
	FAB551	Yes	Available	
	FAB111	Yes	Available	

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## Environmental Product List

### ■ Piezoelectric products

Product name	Series	RoHS Compliance	Sample Status	Remarks
Piezoelectric diaphragm External-drive type	EE20A-63A	Yes	Available	
Piezoelectric sounder External-drive type	EE1403K-39YB60-5V	Yes	Available	
	EE24K-37F110-3V	Yes	Available	
	EE3406K-10R-60V	Yes	Available	
Self-drive type	EF3114K-30S-12V	Yes	Available	
	OSF2-27B	Yes	Available	
	OSF4-27B	Yes	Available	
	OSF5-32B	Yes	Available	
Piezoelectric buzzer	EB2210A-38C-12V	Yes	Available	
	EB23A-30C-12V	Yes	Available	
	EB23B-30C140-12V	Yes	Available	
	EB2505A-31C-12V	Yes	Available	
	EB30B-31C-9V	Yes	Available	
	EB30D-31C150-9V	Yes	Available	
	EB3105A-30C140-12V	Yes	Available	
	EB3105A-30C-12V	Yes	Available	
	EB3120A-35C150-12V	Yes	Available	
	EB4015A-30C150-9V	Yes	Available	
	EB4015B-28C150-24V	Yes	Available	
	EB4015C-30C150-24V	Yes	Available	
	EB4015C-30C-24V	Yes	Available	
Piezoceramic-applied product	Mist generator disk	Yes	Available	
	Piezoelectric bimorph	Yes	Available	
	Elements for ultrasonic motor	Yes	Available	

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## Environmental Product List

### ■ Hybrid Modules

Product name	Series	RoHS Compliance	Sample Status	Remarks
Hybrid module for LCD	–	Yes	Available	
Hybrid module for PDP	–	Yes	Available	

### ■ Physical Random Number Generators

Product name	Series	RoHS Compliance	Sample Status	Remarks
Physical random number generator	RPG100	Yes	Available	
	RPG100B	Yes	Available	

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## Environmental Product List

### ■ Batteries

Product name	Series	Battery directive Compliance	Sample Status	Remarks
Alkaline battery	LR20	Yes	Available	
	LR14	Yes	Available	
	LR6	Yes	Available	
	LR03	Yes	Available	
	LR1	Yes	Available	
	6LF22	Yes	Available	
	6LR61	Yes	Available	
	Carbon-zinc battery	R20	Yes	Available
R14		Yes	Available	
R6		Yes	Available	
R03		Yes	Available	
R1		Yes	Available	
6F22		Yes	Available	
Alkaline button cell	LR44	Yes	Available	
	LR43	Yes	Available	
	LR41	Yes	Available	
	LR1120	Yes	Available	
	LR1130	Yes	Available	
	4LR44	Yes	Available	
	23A	Yes	Available	
Silver oxide cell	SR44	Yes	Available	*
	SR43	Yes	Available	*
	SR41W	Yes	Available	*
	SR1120	Yes	Available	*
	SR1130	Yes	Available	*
	4SR44	Yes	Available	*
Coin-type lithium battery	CR1216	Yes	Available	Including battery with terminal-tab and battery with leading wire and connector
	CR1220	Yes	Available	
	CR1616	Yes	Available	
	CR1620	Yes	Available	
	CR2016	Yes	Available	
	CR2025	Yes	Available	
	CR2032	Yes	Available	

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(Objective substances)

(Acceptable level)

Cadmium : Containing cadmium less than 250ppm by weight of batteries and accumulators

Mercury : Containing mercury less than 2% by weight of button cells and batteries

: Containing mercury less than 5ppm by weight of batteries and accumulators

(excluding button cells and batteries)

## Environmental Product List

### ■ Batteries

Product name	Series	Battery directive Compliance	Sample Status	Remarks
Coin-type lithium battery	CR2430	Yes	Available	Including battery with terminal-tab and battery with leading wire and connector
	CR2450	Yes	Available	
	CR2477	Yes	Available	
Lithium battery	CR8·LHC	Yes	Available	Including battery with terminal-tab and battery with leading wire and connector
	CR2/3 8·L	Yes	Available	
	CR1/2 8·L	Yes	Available	
	CR6LHT	Yes	Available	
	CR6·L	Yes	Available	
	CR2/3 6·L	Yes	Available	
	CR1/2 6·L	Yes	Available	
	Lithium Photo battery	CR2	Yes	
	CR123A	Yes	Available	
	2CR5	Yes	Available	
	CR·P2	Yes	Available	
	CR·V3	Yes	Available	
Hearing Aid Alkaline Zinc Air Battery	PR41	Yes	Available	
	PR44	Yes	Available	
	PR48	Yes	Available	
	PR536	Yes	Available	

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(Objective substances)

(Acceptable level)

Cadmium : Containing cadmium less than 250ppm by weight of batteries and accumulators

Mercury : Containing mercury less than 2% by weight of button cells and batteries

: Containing mercury less than 5ppm by weight of batteries and accumulators  
(excluding button cells and batteries)



## Environmental Product List

### Overseas FDK Sales Offices

Address	Assignment
<b>FDK AMERICA, INC. (CORPORATE OFFICE)</b> 2270 North First St., San Jose, California 95131-2022, U.S.A. Tel:+1-408-432-8331 Fax:+1-408-435-7478	Electronic parts, Batteries
<b>FDK ELECTRONICS GMBH</b> Heerdter Lohweg 89, 40549 Duesseldorf, Germany Tel:+49-211-591574 Fax:+49-211-593549	Electronic parts, Batteries
<b>FDK SINGAPORE PTE.LTD.</b> 4, Leng Kee Road. #06-07/08, SIS Bldg., Singapore159088, Republic of Singapore Tel:+65-6472-2328 Fax:+65-6472-5761	Electronic parts, Batteries
<b>FDK HONG KONG LTD.</b> Suite 1601-1602, Tower 3, China Hong Kong City, 33 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong. TEL:+852-27999773 FAX:+852-27554635	Electronic parts, Batteries
<b>FDK KOREA LTD.</b> Rm 1813 18Floor Hyundai Rexion officetel 1338-20 Seocho-Dong, Seocho-ku, Seoul 137-860, Korea TEL: +82-2-582-8452 FAX: +82-2-582-8453	Electronic parts

## Environmental Product List

### Tokyo Head Office & Sales Office

Address	Assignment
<b>Head office</b> Hamagomu Bldg. 5-36-11,Shinbashi,Minato-ku, Tokyo, 105-8677,Japan Tel:+81-3-5473-4666/4662 Fax:+81-3-3431-9436	Electronics parts Batteries

### Sales Offices

Address	Assignment
<b>Sapporo sales office</b> Rirento Odori Bldg., 17-1-2 Odori-Nishi, Chuo-ku, Saporoshi, Hokkaido 060-0042 Tel:+81-11-615-3332 Fax:+81-11-615-3327	Batteries
<b>Sendai sales office</b> 14-5 Ichomachi, Miyagino-ku, Sendai-shi, Miyagi 983-0047 Tel:+81-22-293-5265 Fax:+81-22-293-5267	Batteries
<b>Nagoya sales office</b> Orchid Bldg., 2-38-2 Meieki, Nakamura-ku, Nagoya-shi, Aichi 450-0002 Tel:+81-52-561-3141 Fax:+81-52-561-3144	Electronics parts, Batteries
<b>Osaka sales office</b> Terasaki Dai2 Bldg., 1-8-29 Nishimiyahara, Yodogawa-ku, Osaka-shi, Osaka 532-0004 Tel:81-6-6350-4883 Fax:+81-6-6350-4890	Electronics parts, Batteries
<b>Hiroshima sales office</b> UPEC Hikari-machi Bldg., 2-9-27 Hikari-machi, Higashi-ku, Hiroshima-shi, Hiroshima 732-0052 Tel: +81-82-535-1450 Fax: +81-82-535-1451	Batteries
<b>Fukuoka sales office</b> Shimazu Hakata Bldg., 4-20, Reisen-machi, Hakata-ku, Fukuoka-shi, Fukuoka 812-0039 Tel:+81-92-291-9421 Fax:+81-92-291-9427	Electronics parts, Batteries

### Sales Center

Address	Assignment
<b>Okinawa sales center</b> 1-9-6 Inanse, Urasoe, Okinawa-ken 901-2128 Tel:+81-98-868-8685 Fax:+81-98-868-8543	Batteries