

SpecifiStion of Cjiang products

Customer	
Product Name	TU-CORE Molded SMD Power Inductors
Customer P/N:	
C iang P/N:	FEXU Series

☒ New Released, ☐ Revised

SPEC No:

REMARK:

Customer Approval Feedback

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Version change history

Rev	Date	Description	APPROVED	CHECKED	DRAWN
1.0	2025/3/29	Document formulation	BOND	MIKO	Roy
2.0	2025/7/25	New Series	BOND	MIKO	Roy
3.0	2026/2/25	New Series	BOND	MIKO	Roy
4.0	2026/8/26	1. New customer part number; 2. Production of black-colored products will no longer be Strried out.	BOND	MIKO	Roy

Sution :

All products listed in this specifiStion are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the appliStions listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly Suse damage to society, person, or property. Please understand that we are not responsible for any damage or liability Sused by use of the products in any of the appliStions below. Please contact us for more details if you intend to use our products in the following appliStions.

1. Aircraft equipment.
2. Aerospace equipment.
3. Undersea equipment.
4. nuclear control equipment.
5. military equipment.
6. Power plant equipment.
7. MediSl equipment.
8. Transportation equipment (automobiles, trains, ships,etc.)
9. Traffic signal equipment.
10. Disaster prevention / crime prevention equipment.
11. Data-processing equipment.
12. AppliStions of similar complexity or with reliability requirements comparable to the appliStions listed in the above.

Note: This type of product does not currently support ultrasonic welding and ultrasonic cleaning processes. For further details, please contact our engineering department.

产品变更通知函

尊敬的客户：

您好！

非常感谢贵司长期以来对我司的支持与信任。因我司 FEXU 系列产品在产品开发之初选用黑色和灰色两种外观，但是在推广过程中我司收到很多客户反馈产品上的丝印因电感本体黑色原因导致 A0I 识别困难，并且选择黑色外观的客户偏少，结合这些因素我司 FEXU 系列外观颜色将进行版本切换，具体安排如下：

- 1、2026 年 9 月 1 日起我司 FEXU 系列不在推广送样承认黑色物料外观产品
- 2、已经承认并且量产的产品我司可以按照原黑色外观交付到 2027 年 2 月 28 日(因为我司已经全面启动外观颜色变更，所以原黑色外观产品交付周期会从之前的 6-8 周延长 10-12 周)
- 3、料号对比示例：

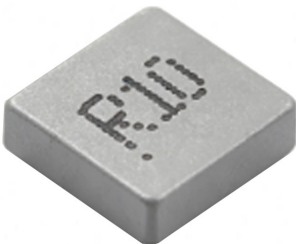
FEXU ①	04 ②	20 ③	S ④	1R0 ⑤	M ⑥	B ⑦	S ⑧	X ⑨
①Series Name				⑥Tolerance:				
TU-CORE Molding Power Inductors				K = ±10% M= ±20% N=±30%				
②External Dimensions(L×W):				⑦Coating color:				
04 =4.10*4.10mm				B =Black G=Gray				
③External Dimensions(H):				⑧ Current:				
20 =2.0mm				S=Routine B-Z=Special				
④Size Tolerance:				⑨Special Part Number: This special part number or customer-specific specification X, where X denotes any alphabetical identifier, shall be determined according to the product matrix.				
S = ±0.2mm								
⑤Inductance value:								
1R0 =1.0uH								

原⑦：B=Black（黑色） G=Gray（灰色） 现⑦： G=Gray（灰色）

4、外观对比区分：
变更前：



变更后：



申明内容:本次变更只涉及产品外观颜色变化，没有产品性能变化，不存在质量上的风险，请贵司放心使用

发行人:

工程审核:

质控审核:



1. Features

- 1.1 Metal material for large current and low loss.
- 1.2 High performance (Isat) realized by metal dust core.
- 1.3 Low loss realized with low Rdc.
- 1.4 Closed magnetic circuit design reduces leakage flux.
- 1.5 Vinyl thermal spray, better surface compactness.
- 1.6 Environmental requirements must comply with the QESP-44 document
- 1.7 100% lead (Pb) free meet RoHS2.0 and Halogen Reach and other legal and regulatory requirements standard.

2. Application

- 2.1 DC/DC converters.
- 2.2 Pad、Smart phone.
- 2.3 Portable gaming devices, Smart wear, Wi-Fi module.
- 2.4 Notebooks, VR, AR.
- 2.5 LCD displays, HDDs, DVCs, DSCs, etc.
- 2.6 Baseband power supply, Amplifier, Power management, Module power supply, Smera power manageme.
- 2.7 Automotive electronic equipment

3. Ordering Procedure

FEXU 04 20 S 1R0 M G C *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series Name	⑥ Tolerance:
TU-CORE Molding Power Inductors	K = ±10% M= ±20% N=±30%
② External Dimensions(L×W):	⑦ Coating color:
04 =4.10*4.10mm	G=Gray
③ External Dimensions(H):	⑧ Current;
20 =2.0mm	S=Routine B~Z=Special
④ Size Tolerance:	⑨ Special Part Number:
S = ±0.2mm	This special part number or customer-specific specification X, where X denotes any alphabet identifier, shall be determined according to the product matrix.
⑤ Inductance value:	
1R0 =1.0uH	

For customized inductance values beyond standard specifications—or for specialized requirements concerning DC resistance (DCR), saturation current (Isat), and temperature-rise current—please contact our engineering team directly.

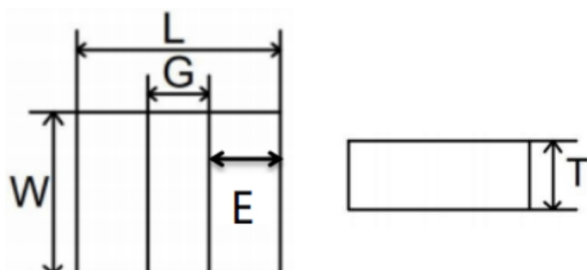
Email: RD@cjiang.com.cn

Alternatively, you may reach our customer service representatives through our official website:
www.cjiang.com.cn

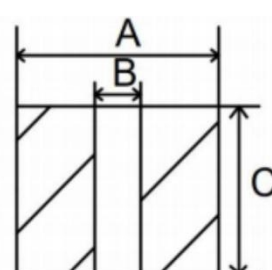
4.TU-core FEXU Integrated Inductor (Commercial use)

4.1 Shape and Dimensions

Outline Dimensions



Recommend Land Pattern Dimensions



Units:mm

Series	L	G	W	E	T	A	B	C
FEXU0412S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.20Max.	4.10	1.10	4.10
FEXU0415S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.50Max.	4.10	1.10	4.10
FEXU0418S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.80Max.	4.10	1.10	4.10
FEXU0420S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.00Max.	4.10	1.10	4.10
FEXU0421S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.10Max.	4.10	1.10	4.10
FEXU0424S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.40Max.	4.10	1.10	4.10
FEXU0430S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	3.00Max.	4.10	1.10	4.10
FEXU0440S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	4.00Max.	4.10	1.10	4.10
FEXU0512S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	1.20Max.	5.50	1.60	5.30
FEXU0518S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	1.80Max.	5.50	1.60	5.30
FEXU0520S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	2.00Max.	5.50	1.60	5.30
FEXU0524S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	2.40Max.	5.50	1.60	5.30
FEXU0528S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	2.80Max.	5.50	1.60	5.30
FEXU0530S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	3.00Max.	5.50	1.60	5.30
FEXU0531S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	3.10Max.	5.50	1.60	5.30
FEXU0540S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	4.00Max.	5.50	1.60	5.30
FEXU0550S	5.2±0.2	2.0±0.2	5.0±0.2	1.60±0.2	5.00Max.	5.50	1.60	5.30
FEXU5124S	5.1±0.2	2.0±0.2	5.3±0.2	1.60±0.2	2.40Max.	5.50	1.70	5.70
FEXU5130S	5.1±0.2	2.0±0.2	5.3±0.2	1.60±0.2	3.00Max.	5.50	1.70	5.70
FEXU5320S	5.3±0.2	1.9±0.2	5.5±0.2	1.70±0.3	2.00Max.	5.60	1.30	6.00
FEXU5321S	5.3±0.2	1.9±0.2	5.5±0.2	1.70±0.3	2.10Max.	5.60	1.30	6.00
FEXU5324S	5.3±0.2	1.9±0.2	5.5±0.2	1.70±0.3	2.40Max.	5.60	1.30	6.00
FEXU5330S	5.3±0.2	1.9±0.2	5.5±0.2	1.70±0.3	3.00Max.	5.60	1.30	6.00
FEXU5350S	5.3±0.2	1.9±0.2	5.5±0.2	1.70±0.3	5.00Max.	5.60	1.30	6.00
FEXU0630S	6.2±0.2	2.6±0.2	6.0±0.2	1.80±0.2	3.00Max.	6.50	2.00	6.30
FEXU0631S	6.2±0.2	2.6±0.2	6.0±0.2	1.80±0.2	3.10Max.	6.50	2.00	6.30

FEXU0640S	6.2±0.2	2.6±0.2	6.0±0.2	1.80±0.2	4.00Max.	6.50	2.00	6.30
FEXU0650S	6.2±0.2	2.6±0.2	6.0±0.2	1.80±0.2	5.00Max.	6.50	2.00	6.30
FEXU0660S	6.2±0.2	2.6±0.2	6.0±0.2	1.80±0.2	6.00Max.	6.50	2.00	6.30
FEXU6415S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	1.50Max.	6.80	2.00	7.00
FEXU6420S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	2.00Max.	6.80	2.00	7.00
FEXU6424S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	2.40Max.	6.80	2.00	7.00
FEXU6430S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	3.00Max.	6.80	2.00	7.00
FEXU6440S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	4.00Max.	6.80	2.00	7.00
FEXU6450S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	5.00Max.	6.80	2.00	7.00
FEXU6460S	6.4±0.2	2.4±0.2	6.6±0.2	2.00±0.3	6.00Max.	6.80	2.00	7.00
FEXU0715S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	1.50Max.	7.50	2.40	7.30
FEXU0720S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	2.00Max.	7.50	2.40	7.30
FEXU0730S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	3.00Max.	7.50	2.40	7.30
FEXU0740S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	4.00Max.	7.50	2.40	7.30
FEXU0750S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	5.00Max.	7.50	2.40	7.30
FEXU0760S	7.2±0.2	2.6±0.2	7.0±0.2	2.30±0.2	6.00Max.	7.50	2.40	7.30
FEXU0820S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	2.00Max.	8.50	2.60	8.30
FEXU0822S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	2.20Max.	8.50	2.60	8.30
FEXU0830S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	3.00Max.	8.50	2.60	8.30
FEXU0840S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	4.00Max.	8.50	2.60	8.30
FEXU0850S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	5.00Max.	8.50	2.60	8.30
FEXU0854S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	5.40Max.	8.50	2.60	8.30
FEXU0870S	8.2±0.2	2.8±0.2	8.0±0.2	2.70±0.2	7.00Max.	8.50	2.60	8.30
FEXU0960S	9.2±0.2	3.1±0.2	9.0±0.2	2.90±0.2	6.00Max.	9.50	2.90	9.30
FEXU0980S	9.2±0.2	3.1±0.2	9.0±0.2	2.90±0.2	8.00Max.	9.50	2.90	9.30
FEXU1030S	10.2±0.2	3.6±0.2	10.0±0.2	3.30±0.2	3.00Max.	10.50	3.20	10.30
FEXU1040S	10.2±0.2	3.6±0.2	10.0±0.2	3.30±0.2	4.00Max.	10.50	3.20	10.30
FEXU1050S	10.2±0.2	3.6±0.2	10.0±0.2	3.30±0.2	5.00Max.	10.50	3.20	10.30
FEXU1230S	12.2±0.2	4.6±0.2	12.0±0.2	3.80±0.2	3.00Max.	12.50	3.60	12.30
FEXU1260S	12.2±0.2	4.6±0.2	12.0±0.2	3.80±0.2	6.00Max.	12.50	3.60	12.30
FEXU1265S	12.2±0.2	4.6±0.2	12.0±0.2	3.80±0.2	6.50Max.	12.50	3.60	12.30

4.2 SpecificStions

FEXU0412(4.1*4.1*1.2mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0412SR22MGS	0.22	6.5	7.5	14	13	15	14
FEXU0412SR47MGD	0.47	7.5	8.5	12	11	11	10

FEXU0415(4.1*4.1*1.5mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0415SR10MGS	0.10	1.8	2.2	29	26	30	27
FEXU0415SR12MGS	0.12	1.9	2.3	17	15	27	25
FEXU0415SR47MGS	0.47	5.8	7.0	13	12	13	12
FEXU0415S1R0MGD	1.0	12.5	15	11	10	9.0	8.0
FEXU0415S1R0MGS	1.0	11.5	13	10.5	9.6	9.0	7.0
FEXU0415S1R5MGS	1.5	20	23	8.5	7.0	7.0	6.0

FEXU0418(4.1*4.1*1.8mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0418SR68MGS	0.68	7.6	8.5	13.0	11.5	13.0	11

FEXU0420(4.1*4.1*2.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0420SR10MGS	0.10	1.2	1.6	34	30.5	35	30
FEXU0420SR12MGS	0.12	1.3	1.7	34	30.5	31	29
FEXU0420SR15MGE	0.15	1.8	2.2	28.5	25.5	28	24
FEXU0420SR22MGS	0.22	2.0	2.7	20	19	20	19
FEXU0420SR22MGD	0.22	1.8	2.2	22	20	26	24
FEXU0420SR33MGD	0.33	3.2	3.85	18	17.5	18	17
FEXU0420SR33MGB	0.33	2.8	3.3	23	20.5	19	18
FEXU0420SR47MGB	0.47	4.0	4.8	17	16	15.2	14.2
FEXU0420SR47MGD	0.47	4.1	4.9	17	16	15	14
FEXU0420SR47MGG	0.47	4.1	4.5	17.5	16.5	15.5	14.2
FEXU0420SR56MGS	0.56	4.7	5.6	18.5	16.5	14	13
FEXU0420SR60MGS	0.60	4.9	5.6	14.5	13.5	14	12.5

FEXU0420SR68MGS	0.68	5.5	6.2	14	13	13	12
FEXU0420SR82MGS	0.82	6.8	8.0	13	12	12	11
FEXU0420S1R0MGD	1.0	7.5	9.0	14.0	12.6	11	9.5
FEXU0420S1R2MGS	1.2	10.5	12	10	9.0	10	9.0
FEXU0420S1R5MGS	1.5	13.5	16	8.0	7.0	9.5	8.5
FEXU0420S1R5MGB	1.5	11.5	14	10	9	9	8
FEXU0420S2R2MGS	2.2	19	23	8.0	7.0	8.0	7.0
FEXU0420S3R3MGS	3.3	24	28	8.0	6.5	5.6	4.7

FEXU0421(4.1*4.1*2.1mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0421S1R0MGS	1.0	7.5	8.5	12.5	11.5	11.5	11.0

FEXU0424(4.1*4.1*2.4mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0424SR10MGS	0.10	1.2	1.6	36	32	40	35

FEXU0430(4.1*4.1*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0430SR12MGS	0.12	1.0	1.2	34	30.5	40	35
FEXU0430SR47MGS	0.47	3.4	4.0	19	17	24	20
FEXU0430SR68MGS	0.68	4.2	5.2	16	14	20	16
FEXU0430S1R5MGS	1.5	9.5	11.3	8.5	7.0	12.5	10.5
FEXU0430S1R8MGS	1.8	13.0	15.0	8.5	7.0	11.5	9.5
FEXU0430S2R2MGS	2.2	14.5	17	7.3	6.5	11	9.0
FEXU0430S3R3MGS	3.3	25	30	6.5	5.5	8.5	7.0
FEXU0430S4R7MGS	4.7	27	32.4	6.6	5.9	7.8	6.5
FEXU0430S5R6MGS	5.6	30	35	6.0	5.0	7.5	6.2
FEXU0430S6R8MGS	6.8	40	48	5.0	4.0	7.0	6.0

FEXU0440(4.1*4.1*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0440S1R5MGS	1.50	7.0	7.9	8.5	7.5	10.0	8.0

FEXU0512(5.2*5.0*1.2mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0512SR10MGS	0.10	1.8	2.5	22	20	35	30
FEXU0512SR15MGS	0.15	4.2	5.0	17	15.3	30	26
FEXU0512SR47MGS	0.47	7.0	8.0	13	12	15.0	13.5
FEXU0512S1R0MGS	1.0	16	18	8.5	7.5	9.5	8.5

FEXU0518(5.2*5.0*1.8mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0518SR22MGS	0.22	4.2	5.0	22	20	35	27

FEXU0520(5.2*5.0*2.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0520SR33MGS	0.33	3.2	3.7	20	17	24	21
FEXU0520SR68MGS	0.68	4.4	5.5	15	14	20	17
FEXU0520S1R0MGS	1.0	7.0	8.4	14	13	16	14
FEXU0520S1R5MGS	1.5	13	17	13	10	12	10
FEXU0520S2R2MGS	2.2	24	29	7.0	6.5	9.5	8.5
FEXU0520S3R3MGS	3.3	38	43	7	6	10	8

FEXU0524(5.2*5.0*2.4mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0524S2R2MGS	2.2	14.5	16	8.5	7.0	10	8.0

FEXU0528(5.2*5.0*2.8mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0528S1R5MGS	1.5	9.0	11.2	12	10.6	14	12.6
FEXU0528S3R3MGS	3.3	25	30	6.5	5.5	5.7	5.0

FEXU0530(5.2*5.0*3.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0530SR13MGS	0.13	1.3	1.5	38	33	52	47

FEXU0530SR15MGS	0.15	1.05	1.45	25	24	43	41
FEXU0530SR16MGS	0.16	1.1	1.5	24	23	42	40
FEXU0530SR22MGS	0.22	1.4	1.65	22	20	36	34
FEXU0530SR30MGS	0.30	1.5	1.8	22	21	29	27
FEXU0530SR33MGS	0.33	1.6	2.0	21	19	28	26
FEXU0530SR47MGS	0.47	2.5	3.0	21	18	26	23
FEXU0530SR56MGS	0.56	3.0	3.6	20	18	24	21
FEXU0530SR68MGS	0.68	3.8	4.6	19	16	21	18.5
FEXU0530S1R0MGS	1.0	6.0	7.6	12.2	10	19	16.5
FEXU0530S1R2MGS	1.2	5.2	6.0	13	11	15	13.5
FEXU0530S2R2MGS	2.2	12	14	10	9.0	12	10
FEXU0530S3R3MGS	3.3	24	27	9.0	8.0	10	9.0
FEXU0530S4R7MGS	4.7	29	32	7.0	6.0	9.0	8.0
FEXU0530S6R8MGS	6.8	37	40	6.0	5.0	8.0	7.0
FEXU0530S100MGS	10.0	59	68	5.0	4.5	5.5	4.5

FEXU0531(5.2*5.0*3.1mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0531S1R5MGS	1.5	9.8	11	14	12.6	11	10.6

FEXU0540(5.2*5.0*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0540S1R0MGS	1.0	4.5	5.5	17	15	18	16
FEXU0540S2R2MGS	2.2	9.0	10.5	11.0	9.0	12.5	11.5
FEXU0540S4R7MGS	4.7	32	36	7.0	5.5	8.5	7.0
FEXU0540S6R8MGS	6.8	40	44	7.0	5.0	9.0	7.0
FEXU0540S100MGS	10.0	45	52	5.5	4.5	6.5	5.7
FEXU0540S220MGS	22.0	97	115	3.3	2.5	4.6	4.0

FEXU0550(5.2*5.0*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0550SR68MGS	0.68	3.3	3.8	22	20	28	24
FEXU0550S6R8MGS	6.80	26	30	7.5	6.0	10.0	8.0

FEXU5124(5.1*5.3*2.4mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5124SR12MGS	0.12	0.8	0.9	32	30	54	47
FEXU5124SR15MGS	0.15	1.3	1.5	24.5	23.5	48	43
FEXU5124SR22MGS	0.22	1.8	2.0	21.4	20.3	41.1	37

FEXU5130(5.1*5.3*3.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5130SR12MGS	0.12	0.80	0.92	37	34	50	45
FEXU5130SR22MGS	0.22	1.30	1.55	33	30	38	32
FEXU5130SR33MGS	0.33	1.8	2.2	29	26	32	28
FEXU5130SR47MGS	0.47	2.5	3.0	24	21.5	29	23
FEXU5130S1R0MGS	1.0	5.0	6.0	17.0	15.5	19.5	17.0
FEXU5130S1R5MGS	1.5	7.5	9.0	12.5	11.0	21.0	18.5
FEXU5130S2R2MGS	2.2	9.8	11.8	12	10.5	12	10.5
FEXU5130S3R3MGS	3.3	14	17	10.0	9.0	10.0	9.0
FEXU5130S4R7MGS	4.7	22	26.4	9.0	8.0	9.0	8.0

FEXU5320(5.3*5.5*2.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5320S50NGS	0.05	0.60	0.78	50	40	60	50

FEXU5321(5.3*5.5*2.1mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5321S1R5MGS	1.50	11.5	13.0	12	10.5	14	11

FEXU5324(5.3*5.5*2.4mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5324SR15MGS	0.15	0.95	1.15	27	23	45	41
FEXU5324SR68MGS	0.68	4.2	5.0	16	14	21	18

FEXU5330(5.3*5.5*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5330SR33MGS	0.33	1.7	2.1	22	18	34	30
FEXU5330SR33MGB	0.33	1.7	2.1	28	26	30	28
FEXU5330SR47MGS	0.47	2.3	2.7	19	16	28	24
FEXU5330SR47MGB	0.47	2.3	2.7	26	24	30	26
FEXU5330SR68MGS	0.68	3.5	4.2	17	14	26	22
FEXU5330S1R0MGS	1.00	5.0	6.0	16	14	19.5	17
FEXU5330S1R5MGS	1.5	7.2	8.6	14.5	13	15	12
FEXU5330S2R2MGS	2.2	10	12	10	8.0	12.5	10
FEXU5330S3R3MGS	3.3	17.5	21	9.0	7.5	11	8.5

FEXU5340(5.3*5.5*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5340S2R2MGS	2.2	7.4	7.9	14	12	14	12

FEXU5350(5.3*5.5*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU5350S2R2MGS	2.2	7.0	8.2	13.8	12.5	13.0	11.5
FEXU5350S3R3MGS	3.3	10.0	11.5	11.3	10.0	11.5	10.0
FEXU5350S4R7MGS	4.7	13.5	15.5	9.7	9.0	10.0	8.5
FEXU5350S8R2MGS	8.2	28.5	32.5	6.5	6.1	7.0	6.1

FEXU0630(6.2*6.0*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0630SR15MGS	0.15	1.10	1.35	32	29	55	48
FEXU0630SR22MGS	0.22	1.4	1.7	25	23	46	42
FEXU0630SR33MGS	0.33	1.85	2.2	18	16	36	33
FEXU0630SR56MGS	0.56	2.4	2.9	16	14	28	25
FEXU0630SR68MGS	0.68	3.8	4.5	15.5	13	27	24
FEXU0630S1R5MGS	1.5	6.8	7.8	15	12	18	15
FEXU0630S2R2MGS	2.2	9.5	11.0	12	10	15.0	12.5
FEXU0630S3R3MGS	3.3	15.5	18	9.0	7.5	13.5	11

FEXU0630S4R7MGS	4.7	17	19	8.3	7.0	11	9.5
FEXU0630S5R6MGS	5.6	21	24	6.2	5.3	10	8.0
FEXU0630S100MGS	10.0	49	58	4.3	3.7	6.3	5.5

FEXU0631(6.2*6.0*3.1mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0631S2R2MGS	2.2	9.0	10	12.0	11.0	14	12.2

FEXU0640(6.2*6.0*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0640SR15MGS	0.15	1.12	1.32	35	30	65	60
FEXU0640S1R0MGS	1.0	4.5	5.8	16	14	20	18
FEXU0640S2R2MGS	2.2	5.6	7.0	16	14	18	15
FEXU0640S4R7MGS	4.7	15	18	9.5	8.0	10.5	8.5
FEXU0640S100MGS	10.0	35	42	6.2	5.3	9.0	7.5

FEXU0650(6.2*6.0*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0650S1R5MGS	1.5	5.0	6.3	18	16	21	19
FEXU0650S2R2MGS	2.2	6.3	7.0	16	14	19	16
FEXU0650S3R3MGS	3.3	7.2	8.0	13	12	14	12
FEXU0650S4R7MGS	4.7	9.2	10.5	12.5	11	12	10
FEXU0650S8R2MGS	8.2	20	23	10	8.0	7.5	7.0

FEXU0660(6.2*6.0*6.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0660S1R0MGS	1.0	2.6	3.1	21	18	29	26
FEXU0660S1R5MGS	1.5	3.4	4.2	18	15	25	21
FEXU0660S2R2MGS	2.2	4.5	5.4	14.5	13	20	17
FEXU0660S3R3MGS	3.3	7.0	8.4	13	12	14	13
FEXU0660S4R7MGS	4.7	9.0	10.8	12.8	11.5	13	11.5
FEXU0660S6R8MGS	6.8	16	19	11.0	9.5	13	11
FEXU0660S100MGS	10.0	18	21	8.5	7.3	11.0	9.0
FEXU0660S150MGS	15.0	38.0	43.5	6.0	4.5	5.8	5.0
FEXU0660S220MGS	22.0	52	60	5.0	3.8	5.6	4.8

FEXU6415(6.4*6.6*1.5mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6415S1R0MGS	1.0	10.5	12.5	12	10	15	12

FEXU6420(6.4*6.6*2.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6420SR15MGS	0.15	1.1	1.3	37	32	43	39

FEXU6421(6.4*6.6*2.1mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6421SR33MGS	0.33	2.3	3.0	26	23	30	26

FEXU6422(6.4*6.6*2.2mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6422S3R3MGS	3.3	18	21	11	10	12	10

FEXU6424(6.4*6.6*2.4mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6424SR15MGS	0.15	1.05	1.20	40	37	51	46
FEXU6424SR22MGS	0.22	1.20	1.45	35.0	31.5	35	32
FEXU6424SR33MGS	0.33	2.30	2.70	25	23	35	32

FEXU6430(6.4*6.6*3.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6430SR12MGS	0.12	0.70	0.82	42	39	69	63
FEXU6430SR15MGS	0.15	0.75	0.85	45	41	63	56
FEXU6430SR18MGS	0.18	0.95	1.20	36	33	55	50
FEXU6430SR33MGS	0.33	1.6	2.0	32	29	43	38
FEXU6430SR33MGB	0.33	1.7	2.1	30	28	45	40
FEXU6430S1R0MGS	1.0	5.0	6.0	15	13	24	22
FEXU6430S1R5MGS	1.5	6.8	7.5	15.5	14.8	18	16
FEXU6430S2R2MGS	2.2	9.5	12	14	12	16	13.5

FEXU6430S4R7MGS	4.7	19	23	10	8.5	12	9.5
FEXU6430S6R8MGS	6.8	26	32	8.5	7.5	11	8.0

FEXU6440(6.4*6.6*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6440SR12MGS	0.12	0.63	0.75	45	42	81	77
FEXU6440SR30MGS	0.3	1.35	1.54	36	33	45	40

FEXU6450(6.4*6.6*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6450S2R2MGS	2.2	5.9	7.0	17	15.5	20	17
FEXU6450S6R8MGS	6.8	15	18	9.5	8.5	8.5	7.5
FEXU6450S100MGS	10.0	26.5	32	7.5	6.5	6.7	5.8

FEXU6460(6.4*6.6*6.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU6460S5R6MGS	5.6	12.5	15.0	11.5	10	11.0	9.5
FEXU6460S6R8MGS	6.8	18	20	10	9	9.5	8.5

FEXU0715(7.2*7.0*1.5mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0715SR68MGS	0.68	9	10.5	11	10	16	14.5
FEXU0715S2R2MGS	2.2	30	36	5.5	5.0	6.8	6.3
FEXU0715S100MGS	10.0	132	145	3.0	2.5	3.8	3.5

FEXU0720(7.2*7.0*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0720S1R5MGS	1.5	11	12	11	10	16	15
FEXU0720S2R2MGS	2.2	12	15	11	9	12	10.5

FEXU0730(7.2*7.0*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0730SR24MGS	0.24	1.1	1.3	35	31	49	46

FEXU0730SR47MGS	0.47	2.6	3.2	28	27	33	31
FEXU0730SR68MGS	0.68	3.3	4.0	24	23	28	26
FEXU0730S1R0MGS	1.0	3.8	4.5	20	17	26	21
FEXU0730S1R5MGS	1.5	6.9	8.3	15	12	22	19
FEXU0730S2R2MGS	2.2	11	13	13	10	21	18
FEXU0730S3R3MGS	3.3	13	15	12	9.5	14	12
FEXU0730S4R7MGS	4.7	16	19	10	8.5	12	9.5
FEXU0730S5R6MGS	5.6	22	26	9.0	8.0	10.5	9.0
FEXU0730S8R2MGS	8.2	34	40	6.5	5.5	8.5	7.0
FEXU0730S100MGS	10.0	38	45	6.0	5.0	8.0	6.5
FEXU0730S220MGS	22.0	105	120	3.8	3.3	5.5	4.5

FEXU0740(7.2*7.0*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0740SR22MGS	0.22	0.85	1.05	32	28	50	45
FEXU0740S4R7MGS	4.7	14	16.5	9.0	8.0	14.5	13.5

FEXU0750(7.2*7.0*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0750S1R0MGS	1.0	2.7	3.2	20	19	32	29
FEXU0750S2R2MGS	2.2	5.6	6.6	20	17	26	23
FEXU0750S3R3MGS	3.3	9.0	10.0	15	13	18.5	16
FEXU0750S4R7MGS	4.7	10.5	12.5	13	12	17	14.5
FEXU0750S100MGS	10	22.5	26	9.0	8.0	11	9.0
FEXU0750S220MGS	22.0	55	60.5	5.0	4.5	7.5	6.5
FEXU0750S330MGS	33	90	99	4.0	3.5	6.5	5.5
FEXU0750S470MGS	47	120	140	3.3	3.0	5.3	4.5

FEXU0760(7.2*7.0*6.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0760S1R5MGS	1.5	3.3	3.8	23	20	28	25
FEXU0760S2R2MGS	2.2	5.5	6.0	19	17	27	24
FEXU0760S4R7MGS	4.7	9.0	10.5	13	12	18	16
FEXU0760S4R7MGB	4.7	7.2	8.0	14	13	16	14
FEXU0760S4R7MGD	4.7	8.0	9.0	13	12	17	15

FEXU0760S6R8MGS	6.8	14.3	17	9.5	8	15	13
FEXU0760S100MGS	10.0	24	28	8.5	7.5	12.5	10.5

FEXU0820(8.2*8.0*2.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0820S2R2MGS	2.2	10.5	12	12.5	11	13	11
FEXU0820S3R3MGS	3.3	18	21	10	8.5	11.5	9.5

FEXU0822(8.2*8.0*2.2mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0822S2R2MGS	2.2	9.6	10.8	14	13	14	13

FEXU0830(8.2*8.0*3.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0830S2R2MGS	2.2	6.5	8.0	15	14	21	18

FEXU0840(8.2*8.0*4.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0840S1R0MGS	1.0	2.7	3.2	26	24	35	32
FEXU0840S1R5MGS	1.5	4.0	4.8	24	22	33	30
FEXU0840S2R2MGS	2.2	4.8	6.0	22	20	23	21
FEXU0840S4R7MGS	4.7	10	12	13.0	11.5	18	15
FEXU0840S100MGS	10.0	26	30	10.0	8.0	13.0	10.0
FEXU0840S150MGS	15.0	42	50	8.0	6.0	10.0	8.0

FEXU0850(8.2*8.0*5.0mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0850S220MGS	22.0	45	50	7.5	6.5	9.0	7.5

FEXU0854(8.2*8.0*5.4mm)

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0854S1R0MGS	1.0	1.9	2.2	36	32	45	35
FEXU0854S2R2MGS	2.2	4.1	4.7	20	17	30	25

FEXU0854S4R7MGS	4.7	7.7	8.5	17	14	20	17
FEXU0854S6R8MGS	6.8	12	15	14	12	17	14
FEXU0854S100MGS	10.0	19	22	11.5	10	13	10
FEXU0854S220MGS	22.0	44	47	7.8	6.8	10.0	8.5

FEXU0870(8.2*8.0*7.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0870S100MGS	10.0	16	18.5	12	11	16	13

FEXU0960(9.2*9.0*6.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0960S100MGS	10.0	11	13	10.0	9.0	13	11.5

FEXU0980(9.2*9.0*8.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU0980S100MGS	10.0	8.7	10	14.5	13	15	13

FEXU1030(10.2*10.0*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1030S2R2MGS	2.2	5.5	7.0	18	16	20	18
FEXU1030S3R3MGS	3.3	10	12	16	15	16	15
FEXU1030S4R7MGS	4.7	15	18	13	12	14	13
FEXU1030S4R7MGB	4.7	16	19	12	11	16	14
FEXU1030S6R8MGS	6.8	21	25	11	10	11	10
FEXU1030S100MGS	10.0	33	38	8.0	7.0	10	9.0

FEXU1040(10.2*10.0*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1040SR47MGS	0.47	0.8	1.3	32	30	42	40
FEXU1040S1R0MGS	1.0	2.2	3.0	26	24	32	30
FEXU1040S2R2MGS	2.2	4.7	6.0	17	16	25	23
FEXU1040S3R3MGS	3.3	6.5	7.8	16	15	21	19
FEXU1040S4R7MGS	4.7	10.5	12.5	14	13	19	17

FEXU1040S6R8MGS	6.8	13.5	16	12	11	15	14
FEXU1040S100MGS	10.0	16	19.5	11.0	9.0	13	10
FEXU1040S220MGS	22.0	43	51	6.5	5.5	6.5	5.5

FEXU1050(10.2*10.0*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1050S1R0MGS	1.0	1.5	2.2	28	26	34	32
FEXU1050S1R5MGS	1.5	2.1	3.0	28	25.5	32	30
FEXU1050S2R2MGS	2.2	3.5	4.2	28	25	32	29
FEXU1050S3R3MGS	3.3	5.0	6.5	18	17	24	22
FEXU1050S4R7MGS	4.7	6.0	8.0	16	15	21	19
FEXU1050S100MGS	10.0	14.5	17	12	11	15	12
FEXU1050S220MGS	22.0	32	38	9.0	7.5	9.5	8.0

FEXU1060(10.2*10.0*6.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1060S100MGS	10.0	14	15	14	12	20	16

FEXU1230(12.2*12.0*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1230S1R0MGS	1.0	2.4	3.0	28	24	35	32
FEXU1230S1R5MGS	1.5	3.8	4.2	24	21	32	28
FEXU1230S2R2MGS	2.2	5.0	5.5	20	18	28	25

FEXU1240(12.2*12.0*4.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1240S6R8MGS	6.8	8.8	10.0	15	13	20	16

FEXU1250(12.2*12.0*5.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
		TypiSI	Max	TypiSI	Max	TypiSI	Max
FEXU1250S4R7MGD	4.7	4.5	5.0	26	22	25	22

FEXU1260(12.2*12.0*6.0mm)

P/N	L0(μH) @0A 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1260S100MGS	10	10	12	15	12	15	13
FEXU1260S220MGS	22.0	22	25	14	12	12	10

FEXU1265(12.2*12.0*6.5mm)

P/N	L0(μH) @0A 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FEXU1265S3R3MGS	3.3	3.7	4.5	20	18	33	30

Test remarks

Note 1.: All test data is referenced to 25 °C ambient.

Note 2.: Test Condition:1MHz, 1.0Vrms.

Note 3.: Irms:DC current (A) that will cause an approximate ΔT of 40 °C .

Note 4.: Isat:DC current (A) that will cause L0 to drop approximately 30%.

Note 5.: Operating Temperature Range -55°C to + 125°C .

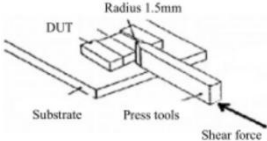
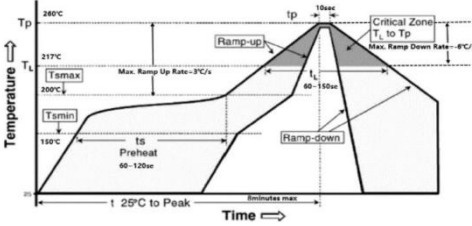
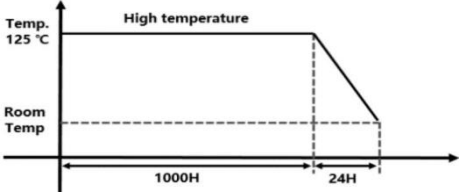
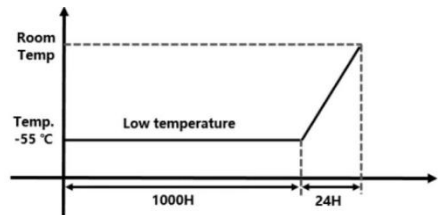
Note 6.: The part temperature (ambient + temp rise) should not exceed 125 under °C the worst Sse operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

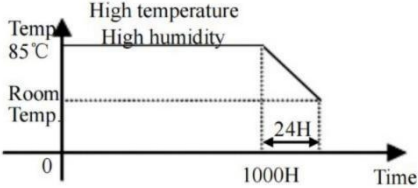
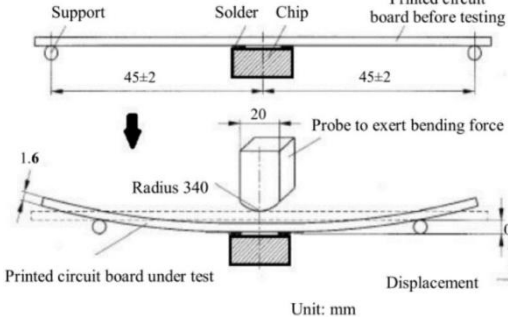
Note 7.: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Note 8; For the FEXU04-sized inductor, the absolute maximum voltage is 50V DC; for the FEXU05-sized inductor, the absolute maximum voltage is 60V DC; for inductors of sizes FEXU06 and above, the absolute maximum voltage is 70V DC.

5. Product test

5.1 Reliability

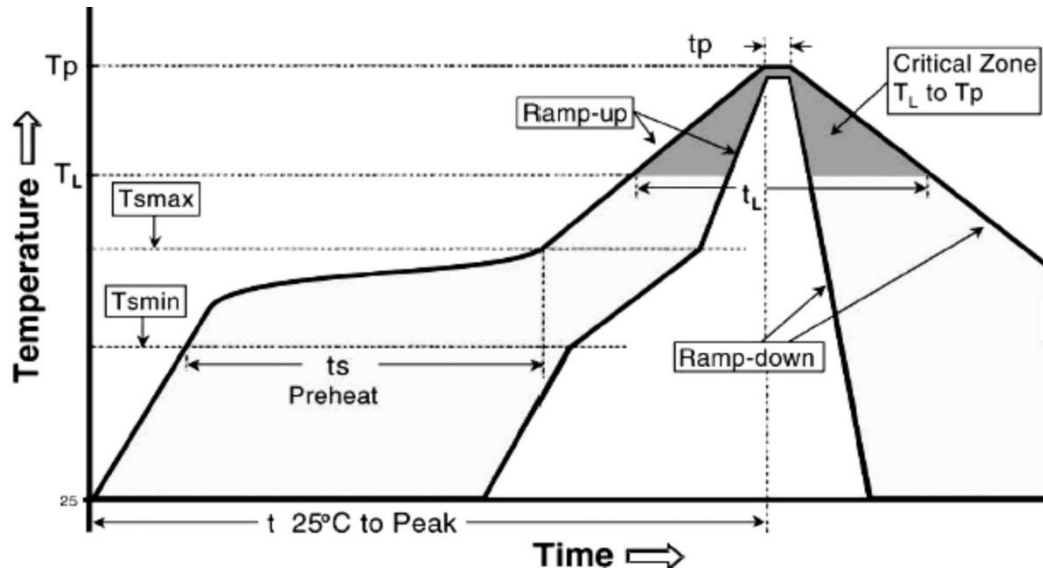
No.	Item	Requirements	Test Methods and Remarks	Reference	Sample Size
1	Solderability	(1) No Sse deformation or change in appearance. (2) Terminal area must have 95% min. Solder coverage.	①Temperature: $245 \pm 5^{\circ}\text{C}$. ②Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). ③Sample immersion tin furnace $5 \pm 0.5\text{s}$.	AEC-Q200 (J-STD 002)	32
2	Adhesion of teral electrode	(1)Strong bond between the pad and the core, without come off PCB.	①Preconditioning: 245°C Reflow 3 times ②Inductors shall be subjected to $(260 \pm 0/-5^{\circ}\text{C})^{\circ}\text{C}$ for $(10 \pm 5)\text{s}$ Soldering in the base whit 0.3mm solder. ③Aplombelectrode way plus tax X N for (10 ± 1) seconds. 	AEC-Q200 (AEC-Q200-006)	32
3	Reflow test	(1) No physisI damage. (2) $ \Delta L_0/L_0 \leq 10\%$	①The peak temperature: $260 \pm 0/-5^{\circ}\text{C}$. ②Reflow: 3 times. ③ Temperature curve is as below 	AEC-Q200 (MIL-STD-202 Method 210)	32
4	High temperature	(1) No physisI damage. (2) $ \Delta L_0/L_0 \leq 10\%$	①Preconditioning: Bake at $125 \pm 5^{\circ}\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times ②Temperature: $125 \pm 2^{\circ}\text{C}$. ③Time : 1000 hours. ④Measurement at 24 ± 4 hours after test conclusion 	AEC-Q200 (MIL-STD - 202 Method 108)	77
5	Low temperature	(1) No physisI damage. (2) $ \Delta L_0/L_0 \leq 10\%$	①Preconditioning: Bake at $125 \pm 5^{\circ}\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times ②Temperature: $-55 \pm 2^{\circ}\text{C}$. ③Time : 1000 hours. ④Measurement at 24 ± 4 hours after test conclusion 	JESD22-A119A	77
6	Thermal shock	(1) No physisI damage. (2) $ \Delta L_0/L_0 \leq 10\%$	①Preconditioning: Bake at $125 \pm 5^{\circ}\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times ②Repeat 500 cycle as follow : $(-55 \pm 2^{\circ}\text{C}, 30 \pm 3\text{minutes})$ 、 $(\text{Room temperature}, 5\text{ minutes})$ 、 $(+125 \pm 2^{\circ}\text{C}, 30 \pm 3\text{minutes})$ 、 $(\text{Room temperature}, 5\text{ minutes})$ ③Measurement at 24 ± 4 hours after test conclusion	MIL-STD -202 Method 107	77

7	Resistance to Soldering Heat	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). ② Solder Temperature: $260 \pm 5^\circ\text{C}$. ③ Immersion Time: $10 \pm 1\text{sec}$.	AEC-Q200 (MIL-STD-202 Method 210)	32
8	Static Humidity	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Preconditioning: Bake at $125 \pm 5^\circ\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times ② 1000 hours, $85^\circ\text{C}/85\%\text{RH}$. ③ Unpowered. ④ Measurement at 24 ± 4 hours after test conclusion 	AEC-Q200 (MIL-STD-202 Method 103)	77
9	Board Flex	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Preconditioning: 245°C Reflow 3 times ② Part mounted on a $100\text{mm} \times 40\text{mm}$ FR4 PCB board, which is $1.6 \pm 0.2\text{mm}$ thick and as a Layer-thickness $35\text{ }\mu\text{m} \pm 10\text{ }\mu\text{m}$. ③ Bending speed is 1mm/s . ④ Keeping the P.C Board 2 mm minimum for 60 seconds. 	AEC-Q200 (AEC-Q200-005)	30
10	Vibration	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Preconditioning: 245°C Reflow 3 times ② Frequency range : $10 \sim 2000\text{Hz}$. ③ Amplitude: 1.5mm or 20g . ④ Sweep time and duration: $10 \sim 2000 \sim 10\text{Hz}$ for 20 minutes. ⑤ Each four hours in X,Y,Z direction, 12hours in total.	AEC-Q200 (MIL-STD-202 Method 204)	32
11	Mechanical Shock	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Preconditioning: 245°C Reflow 3 times ② Peak acceleration: 100G/S ③ Duration of pulse: 6ms ④ 3times in each of (±X, ±Y, ±Z) axes.	AEC-Q200 (MIL-STD-202 Method 213)	32
12	Loading at High Temperature	(1) No physical damage. (2) $ \Delta L_0/L_0 \leq 10\%$	① Preconditioning: Bake at $125 \pm 5^\circ\text{C}$ for $24 \pm 0.5\text{H}$, 245°C Reflow 3 times ② Temperature: $85 \pm 2^\circ\text{C}$. ③ Time : 1000 hours. ④ Applied Current : Rated current. ⑤ Measurement at 24 ± 4 hours after test conclusion	AEC-Q200 (MIL-STD-202 Method 108)	77

5.2 Soldering Condition

(This is for recommendation, please customer perform adjustment according to actual appliStion)

Recommend Reflow Soldering Profile : (solder : Sn96.5 / Ag3 / Cu0.5)



Profile Feature	Lead (Pb)-Free solder
Preheat: Temperature Min (T _{smin}) Temperature Max (T _{smax}) Time (T _{smin} to T _{smax}) (ts)	150°C 200°C 60 -120 seconds
Average ramp-up rate: (Ts max to Tp)	3°C / second max.
Time maintained above : Temperature (TL) Time (tL)	217°C 60-150 seconds
Peak Temperature (Tp)	260°C
Time within $\begin{smallmatrix} +0 \\ -5 \end{smallmatrix}$ °C of actual peak Temperature (tp) ²	10 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8minutes max.

Allowed Re-flow times : 2 times

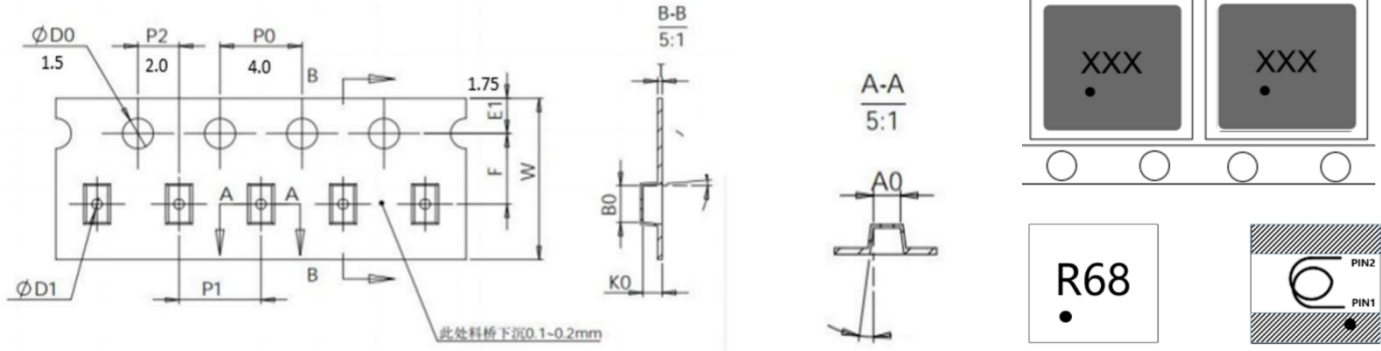
Remark : To avoid discoloration phenomena of chip on terminal electrodes, please use N2 Re-flow furnace .

6. Packing

■ Dimension of plastic taping: (Unit: mm)

The following dimensions are related to the actual fit of the machine , for reference only.

■ 4012 -1265 Series



Series/mm	W	A0	B0	D1	F	K0	P1	T	R/Pcs
Tolerance	/	/	/	±0.20	±0.10	/	±0.10	±0.05	
FEXU0412	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	1.30±0.10	8.0	0.30	3K
FEXU0415	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	1.70±0.10	8.0	0.30	
FEXU0418/0420	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	2.20±0.10	8.0	0.30	
FEXU0424	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	2.60±0.10	8.0	0.35	2.5K
FEXU0430	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	3.20±0.10	8.0	0.35	2K
FEXU0440	12.0±0.30	4.40±0.10	4.40±0.10	1.5	5.5	4.20±0.10	8.0	0.35	1.5K
FEXU0512	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	1.45±0.10	8.0	0.35	3K
FEXU0518	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	2.0±0.10	8.0	0.35	2.5K
FEXU0520	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	2.25±0.10	8.0	0.35	2K
FEXU0524	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	2.6±0.10	8.0	0.35	
FEXU0528	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	3.05±0.10	8.0	0.35	
FEXU0530	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	3.25±0.10	8.0	0.35	
FEXU0540	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	4.25±0.10	8.0	0.35	1.5K
FEXU0550	12.0±0.30	5.20±0.10	5.40±0.10	1.5	5.5	5.25±0.10	8.0	0.35	1.0K
FEXU5124	12.0±0.30	5.60±0.10	5.40±0.10	1.5	5.5	2.6±0.10	6.0	0.35	2.5K
FEXU5130	12.0±0.30	5.60±0.10	5.40±0.10	1.5	5.5	3.2±0.10	6.0	0.35	2.0K
FEXU5320	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	2.3±0.10	12.0	0.35	2.5K
FEXU5321	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	2.3±0.10	12.0	0.35	
FEXU5324	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	2.6±0.10	12.0	0.35	
FEXU5330	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	3.2±0.10	12.0	0.40	2.0K
FEXU5340	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	4.2±0.10	12.0	0.40	1.5K

FEXU5350	16.0±0.30	5.70±0.10	5.50±0.10	1.5	7.5	5.2±0.10	12.0	0.40	1.5K
FEXU0630/0631	16.0±0.30	6.20±0.10	6.40±0.10	1.5	7.5	3.35±0.10	12.0	0.35	1.0K
FEXU0640	16.0±0.30	6.20±0.10	6.40±0.10	1.5	7.5	4.25±0.10	12.0	0.35	1.0K
FEXU0650	16.0±0.30	6.20±0.10	6.40±0.10	1.5	7.5	5.25±0.10	12.0	0.50	0.8K
FEXU0660	16.0±0.30	6.20±0.10	6.40±0.10	1.5	7.5	6.25±0.10	12.0	0.50	0.6K
FEXU6415	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	1.7±0.10	12.0	0.35	2.5K
FEXU6420	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	2.2±0.10	12.0	0.35	2K
FEXU6421	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	2.2±0.10	12.0	0.35	2K
FEXU6422	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	2.4±0.10	12.0	0.35	2K
FEXU6424	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	2.7±0.10	12.0	0.40	1.5K
FEXU6430	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	3.2±0.10	12.0	0.35	1K
FEXU6440	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	4.2±0.10	12.0	0.40	1K
FEXU6450	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	5.2±0.10	12.0	0.50	0.8K
FEXU6460	16.0±0.30	6.80±0.10	6.60±0.10	1.5	7.5	6.2±0.10	12.0	0.50	0.6K
FEXU0715	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	1.7±0.10	12.0	0.40	2K
FEXU0720	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	2.20±0.10	12.0	0.40	1.5K
FEXU0730	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	3.20±0.10	12.0	0.40	1K
FEXU0740	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	4.20±0.10	12.0	0.40	1K
FEXU0750	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	5.20±0.10	12.0	0.40	1K
FEXU0760	16.0±0.30	7.20±0.10	7.40±0.10	1.5	7.5	6.20±0.10	12.0	0.50	0.8K
FEXU0820	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	2.2±0.10	16.0	0.35	1.5K
FEXU0822	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	2.4±0.10	16.0	0.35	1.5K
FEXU0830	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	3.2±0.10	16.0	0.4	1K
FEXU0840	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	4.2±0.10	16.0	0.50	1K
FEXU0850	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	5.2±0.10	16.0	0.50	0.8K
FEXU0854	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	5.6±0.10	16.0	0.50	
FEXU0870	24.0±0.30	8.20±0.10	8.40±0.10	1.5	11.5	7.2±0.10	16.0	0.50	0.5K
FEXU0960	24.0±0.30	9.20±0.10	9.40±0.10	1.5	11.5	6.2±0.10	16.0	0.50	0.5K
FEXU0980	24.0±0.30	9.20±0.10	9.40±0.10	1.5	11.5	8.2±0.10	16.0	0.50	0.4K
FEXU1030	24.0±0.30	10.20±0.10	10.40±0.10	1.5	11.5	3.20±0.10	16.0	0.40	1K
FEXU1040	24.0±0.30	10.20±0.10	10.40±0.10	1.5	11.5	4.20±0.10	16.0	0.40	0.5K
FEXU1050	24.0±0.30	10.20±0.10	10.40±0.10	1.5	11.5	5.20±0.10	16.0	0.40	
FEXU1060	24.0±0.30	10.20±0.10	10.40±0.10	1.5	11.5	6.20±0.10	16.0	0.40	
FEXU1070	24.0±0.30	10.50±0.10	10.50±0.10	1.5	11.5	7.30±0.10	16.0	0.50	
FEXU1080	24.0±0.30	10.50±0.10	10.50±0.10	1.5	11.5	8.30±0.10	16.0	0.50	0.4K
FEXU1230	24.0±0.30	12.20±0.10	12.40±0.10	1.5	11.5	3.20±0.10	16.0	0.50	0.5K
FEXU1240	24.0±0.30	12.20±0.10	12.40±0.10	1.5	11.5	4.20±0.10	16.0	0.50	
FEXU1250	24.0±0.30	12.20±0.10	12.40±0.10	1.5	11.5	5.20±0.10	16.0	0.50	
FEXU1260	24.0±0.30	12.20±0.10	12.40±0.10	1.5	11.5	6.20±0.10	16.0	0.50	
FEXU1265	24.0±0.30	12.20±0.10	12.40±0.10	1.5	11.5	6.70±0.10	16.0	0.50	

■ Dimension of Reel : (Unit: mm)

Packing size "W=8mm" using 178mm Reel Packing size "W≥12mm" using 330mm Reel

Type	A ±2.0	B ±2.0	C ±2.0
All	178	60	13.0

Type	A ±2.0	B ±2.0	C ±2.0
All	330	100	13.0



7. Note

7.1 Storage Period

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 12 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in Sse of storage over 12 months, solderability shall be checked before actual usage.

7.2 Storage Conditions

Store products in a warehouse in compliance with the following condition:

Temperature: Inductors (product with taping) +15 to +35°C; Humidity: 25~70%RH.

If the product is not used up 24H after opening, desicSnt should be placed in the package and sealed

7.3 Do not subject products to rapid changes in temperature and humidity.

7.4 Do not store the products in chemiSl atmosphere such as one containing sulfurous acid gas or alkaline gas, that will Suses poor solderability and corrosion of inductors.

7.5 Do not store products in bulk packaging to prevent collision among inductors which Suses core chipping and wire breakage.

7.6 Store products on pallets to protect from humidity, dust, etc.

7.7 Avoid heat shock, vibration, direct sunlight, etc.

7.8 When designing the PCB, please consider the installation position of the non-magnetic shielded components to avoid failures Sused by magnetic interference.

7.9 Do not place this product near magnets or objects with magnetic force.

7.10 The product will self-heat (temperature rise) due to power-on, and sufficient margin should be left in thermal design.

7.11 Mounting density

If this product is placed near heat-generating products, be sure to implement sufficient heat-dissipating measures. If this product is subjected to a signifiSnt amount of heat from other products, this could adversely affect product quality, resulting in a circuit malfunction or failure of the

mounted section. Also, be sure that the product is used in a manner so that the heat that the product is subjected to from other products does not exceed the upper limit of the rated operating temperature for the product.

7.12 Since the static electricity Sried by the human body will be transmitted to the ground wire, please use an anti-static wrist strap.

7.13 Grease on human hands may lead to decreased solderability. Please avoid direct contact with the terminals.

7.14 This product refers to the general standard used in audio-visual entertainment, home appliances, computers,office automation, communiStions, power modules, LED lighting, measuring equipment.Machine tools, industrial control panels and other general electronic equipment. And the general electronequipment should be used under the usual operation and usage methods.

7.15 When this product is used in ocSsions other than general electronic equipment, such as: Automotive Electronic products,medical equipment, military equipment, Aerospace equipment, submarine equipment, etc.please be sure to contact the company's sales department,the company will cooperate with customer needs, and negotiate different intended use described in this product

7.16 Reworking with soldering iron

ITEM	Requirement
Pre-heating	150 °C/approx. 1 min
Tip temperature of soldering iron	350 °C max.
Soldering time	3 s (+1 s, -0 s)
Number of reworking operations	1 times max.
It is recommended to replace the product directly, rework may Suse poor appearance	

7.17 We Snnot warrant against failure Sused by any use of our product that deviates from the intended use as described in this product specifiStion.

7.18 Please approve our product specifiStions or transact the approval sheet for product specifiStions before ordering.

7.19 Our specifiStion limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your appliStion circuit.