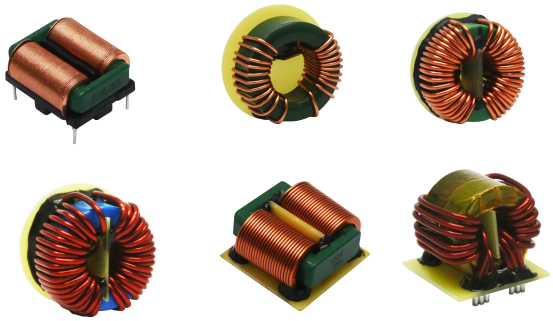
Common Mode Filter



FEATURES

- High reliability
- Excellent isolation voltage
- Effective anti-interference
- Good temperature characteristic

RoHS

The filter is suitable for applications that are sensitive to noise, such as analog circuits , and the EMC level can be significantly improved by adding a product to the input end of the power module.

Selection Guide

Model	*Inductance (uH)	Current (A)(max)	DCR(mΩ) (max)	Weight (g) (typ)	Size(mm) (L x W x H)
FL2D-20-183	18000*2	2.0	150*2	19	25.50 x 23.00 x 14.00 See Figure1
FL2D-80-162	1600*2	8.0	40*2	36	37.00 x 37.00 x 18.00 See Figure2
FL2DN-80-151	150*2	8.0	50*2	18	27.00 x 27.00 x 13.00 See Figure3
FL2D-A2-103	10000*2	12.0	15*2	41	31.00 x 31.00 x 20.40 See Figure4
FL2D-A3-202	2000*2	13.0	50*2	58	35.00 x 34.00 x 19.50 See Figure5
FL2D-D0-250	250*2	40.0	10*2	48	34.50 x 28.50 x 29.00 See Figure6

Note:.*1. The inductance values of FL2D-20-183 and FL2D-A3-202 are tested under the conditions of T=25℃, fo=1KHz, Uo=0.25V. The other models are tested under the conditions of T=25℃, fo=10KHz, Uo=0.1V.

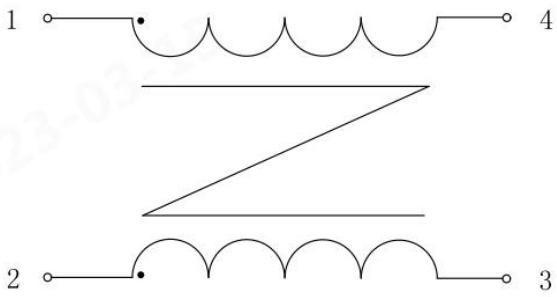
2. The inductance values of FL2D-80-162 and FL2DN-80-151 in the table are typical values, while other models are minimum values.

General Specifications

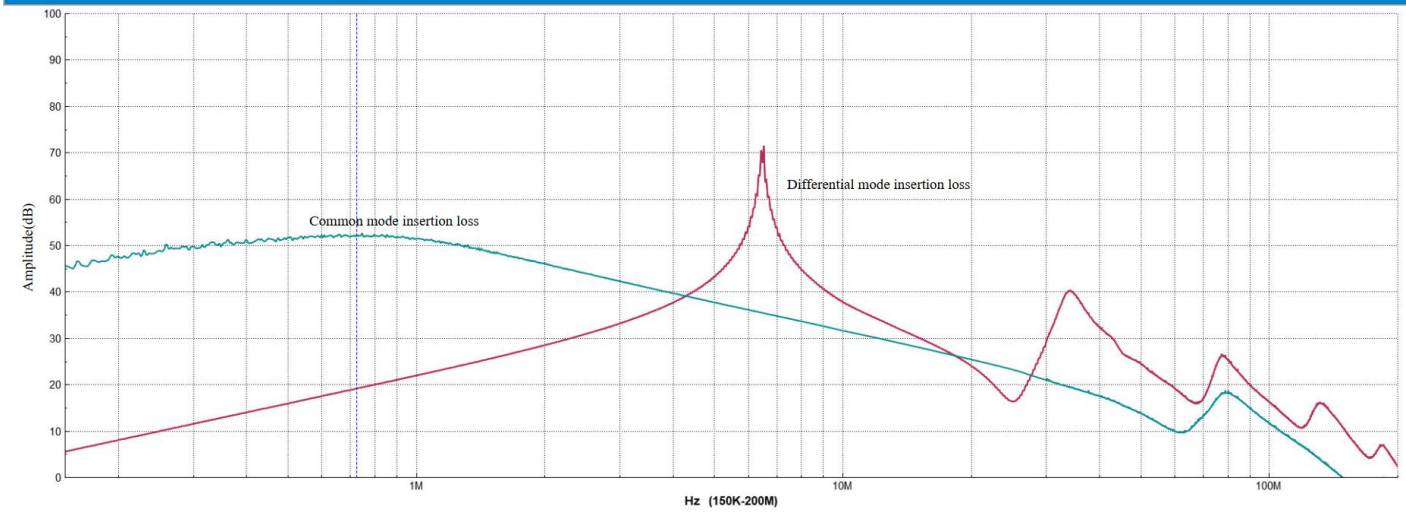
Item	Test Conditions		Min.	Typ.	Max.	Unit
Operating Temperature *			-40	--	+105	℃
Storage Temperature			-40	--	+105	
Welding Temperature	Wave soldering welding,10 seconds MAX		+255	+260	+265	
Storage Humidity	Non-condensing		--	--	95	%RH
Inductance Error Range	fo=10KHz, Uo=0.1V,T=25℃	FL2D-80-162	--	35	--	%
		FL2DN-80-151				
	The sensitivity of other models is defined as the minimum value		--	--	--	%
Isolation Voltage（COIL-COIL）	Electric strength test for 1 minute with a leakage current of 5mA max		--	--	1500	VAC
Vibration			10~55Hz, 10g, X,Y,Z direction ,2mm			
Warranty	Ambient temperature: <40℃		3 years			

Note: *1.Operating Temperature range includes inductor self heating.

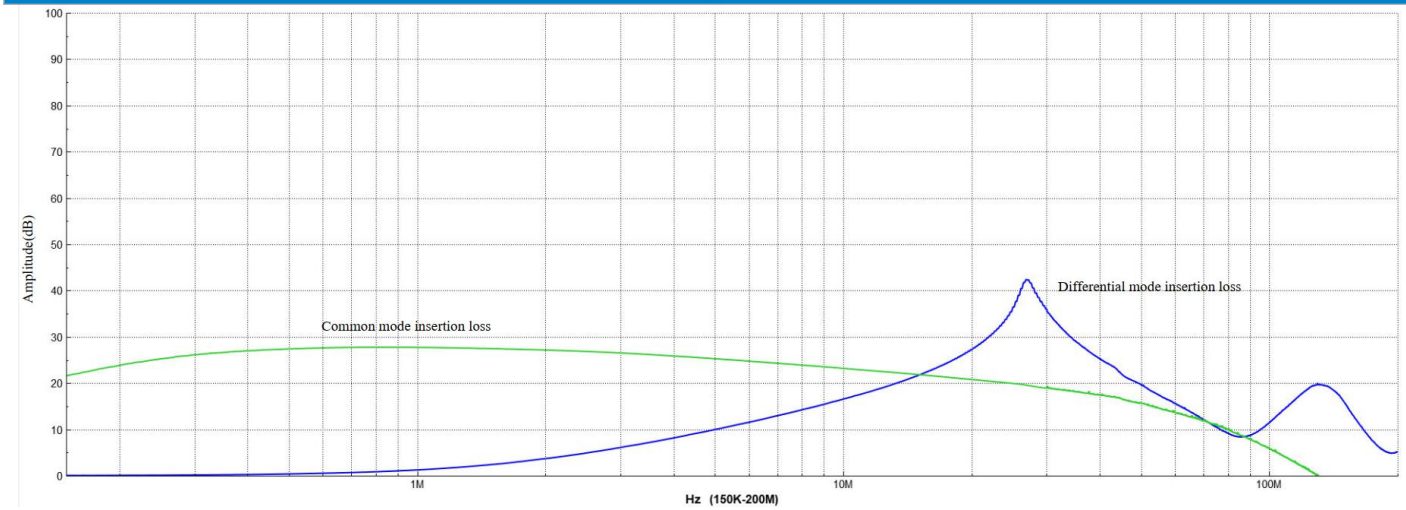
Schematic Diagram Of Pin Mark



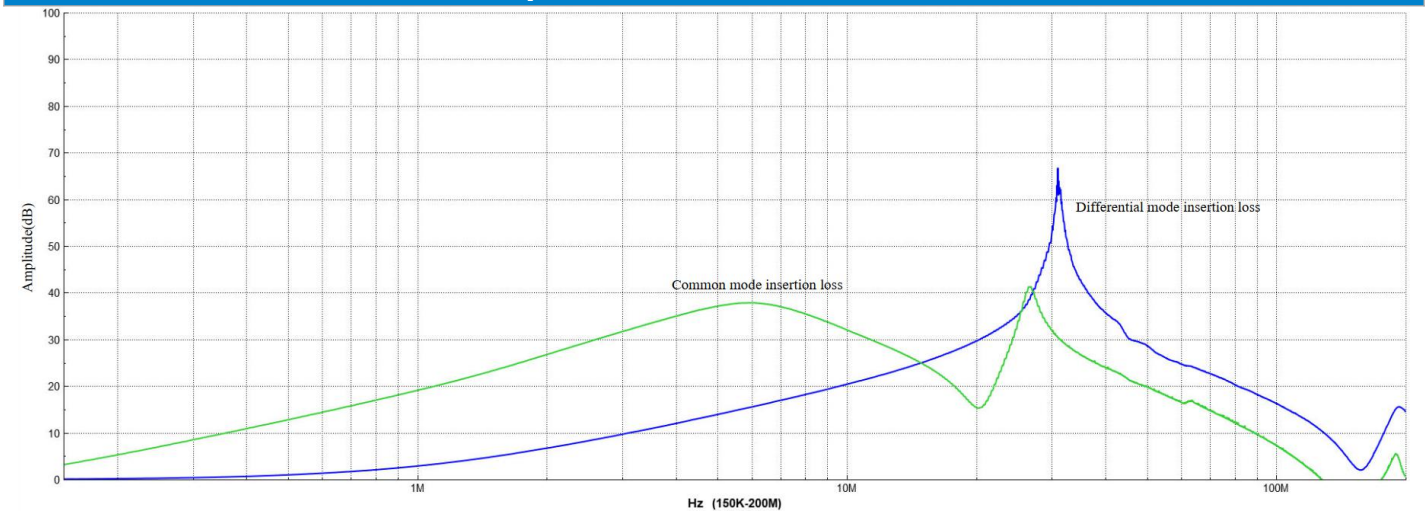
FL2D-20-183 Insertion Loss Specifications (reference value)



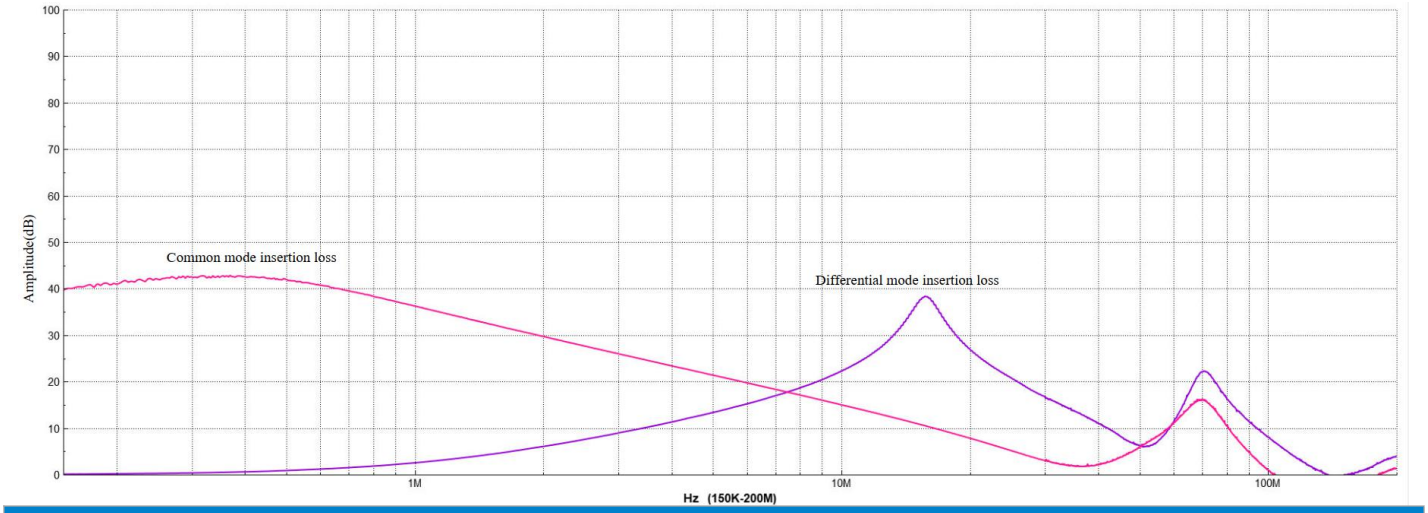
FL2D-80-162 Insertion Loss Specifications (reference value)



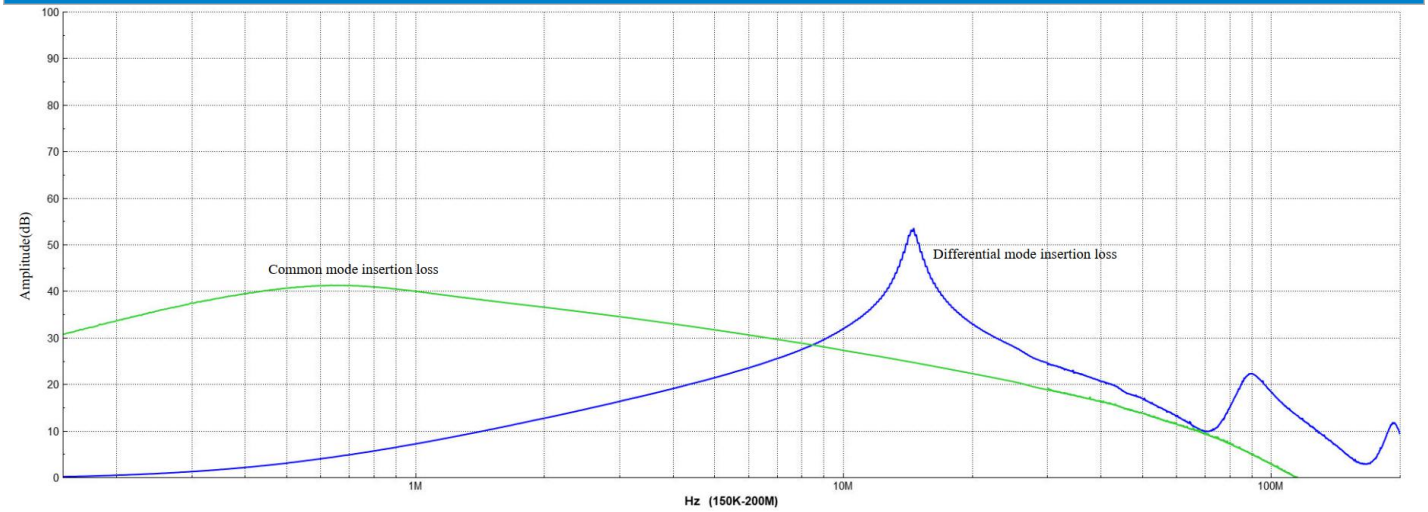
FL2DN-80-151 Insertion Loss Specifications (reference value)



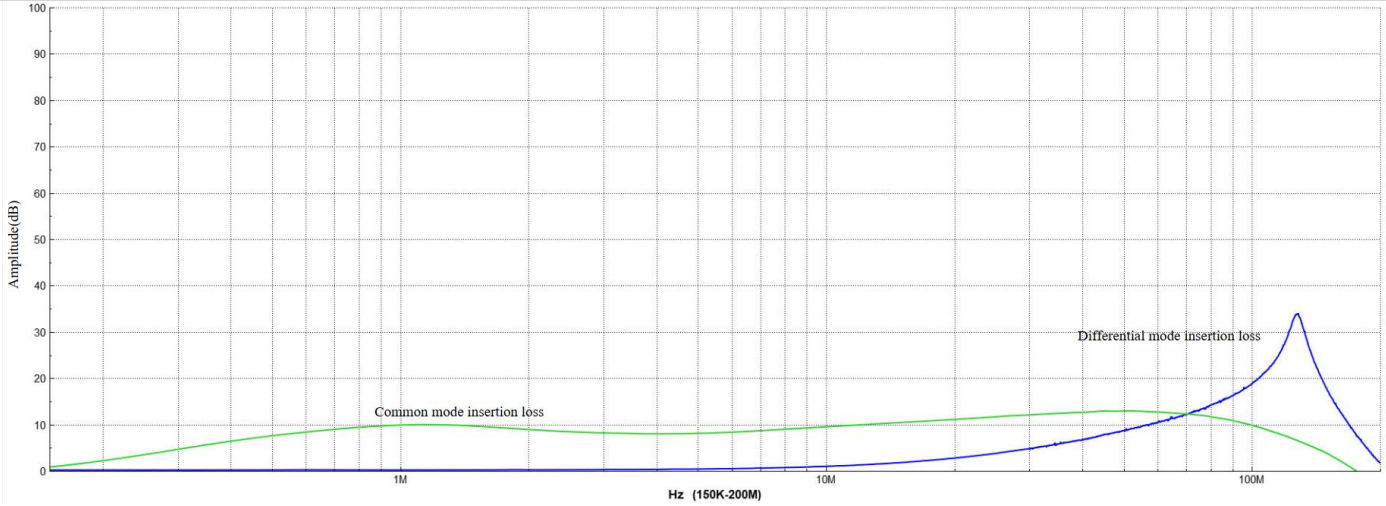
FL2D-A2-103 Insertion Loss Specifications (reference value)



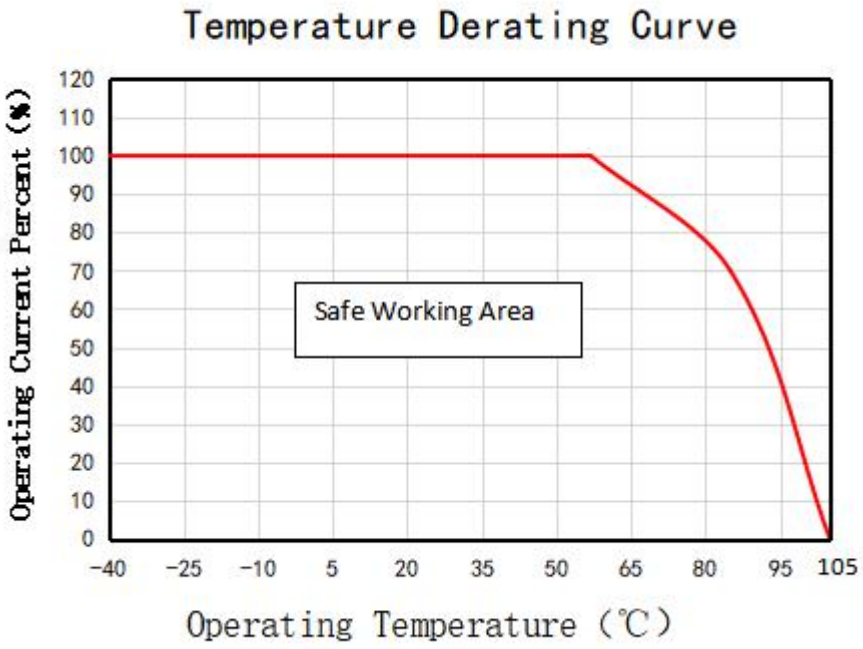
FL2D-A3-202 Insertion Loss Specifications (reference value)



FL2D-D0-250 Insertion Loss Specifications (reference value)

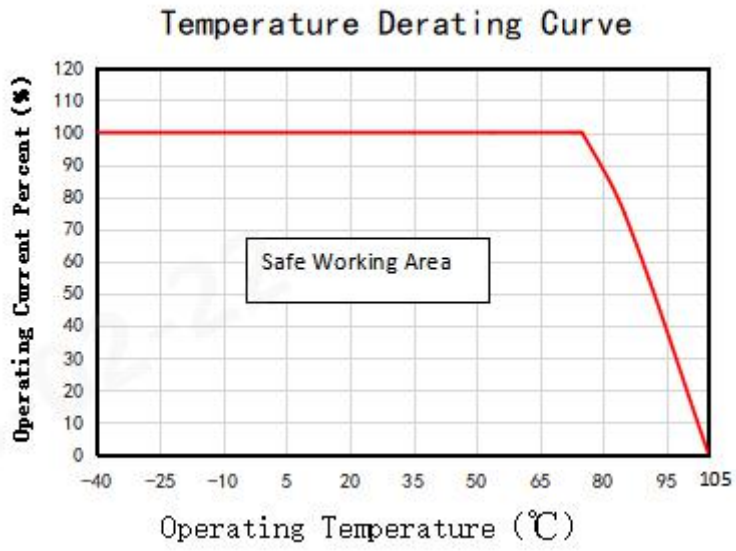


FL2D-20-183 Roduct Typical Curve



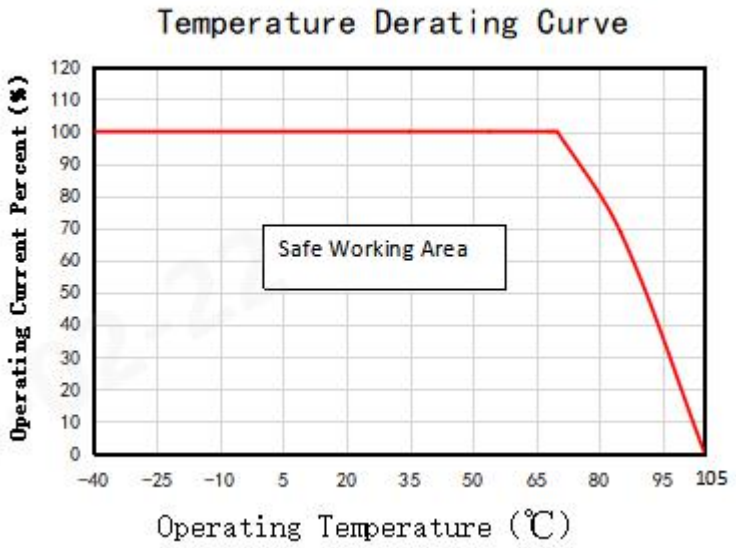
Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2D-80-162 Roduct Typical Curve



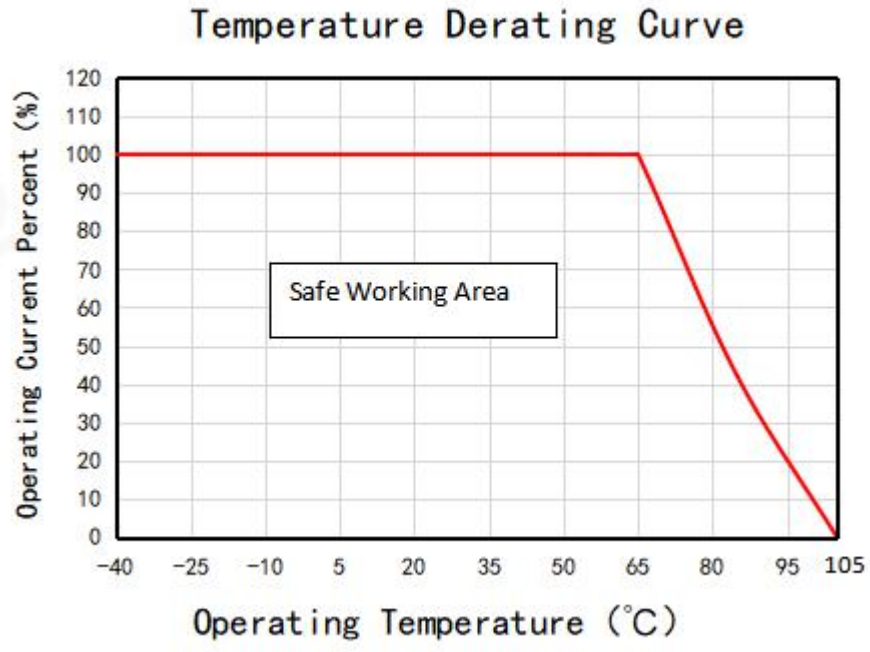
Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2DN-80-151 Roduct Typical Curve



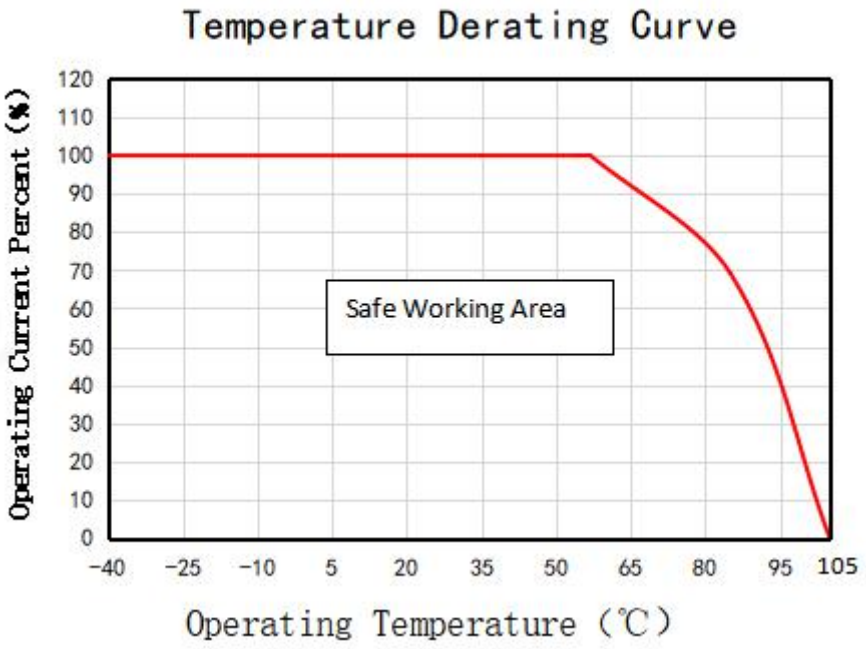
Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2D-A2-103 Roduct Typical Curve



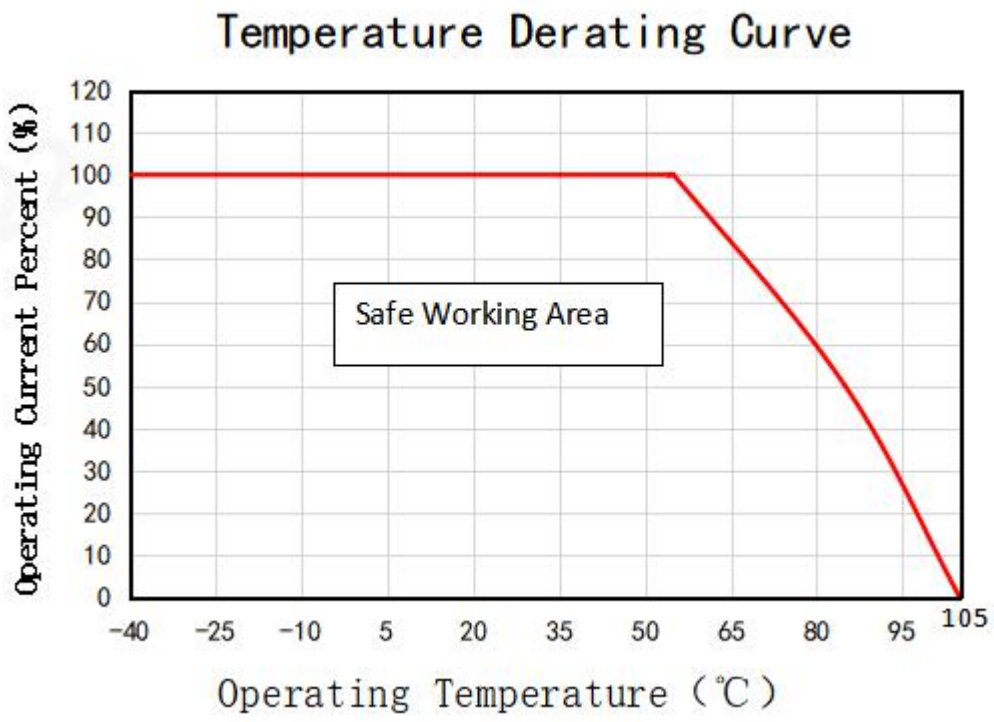
Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2D-A3-202 Roduct Typical Curve



Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2D-D0-250 Roduct Typical Curve



Note: This product is suitable for use in safe working areas, such as in non-safe working areas, it is recommended to use forced air cooling and other heat dissipation measures.

FL2D-20-183 Schematic Diagram Of Pin Mark

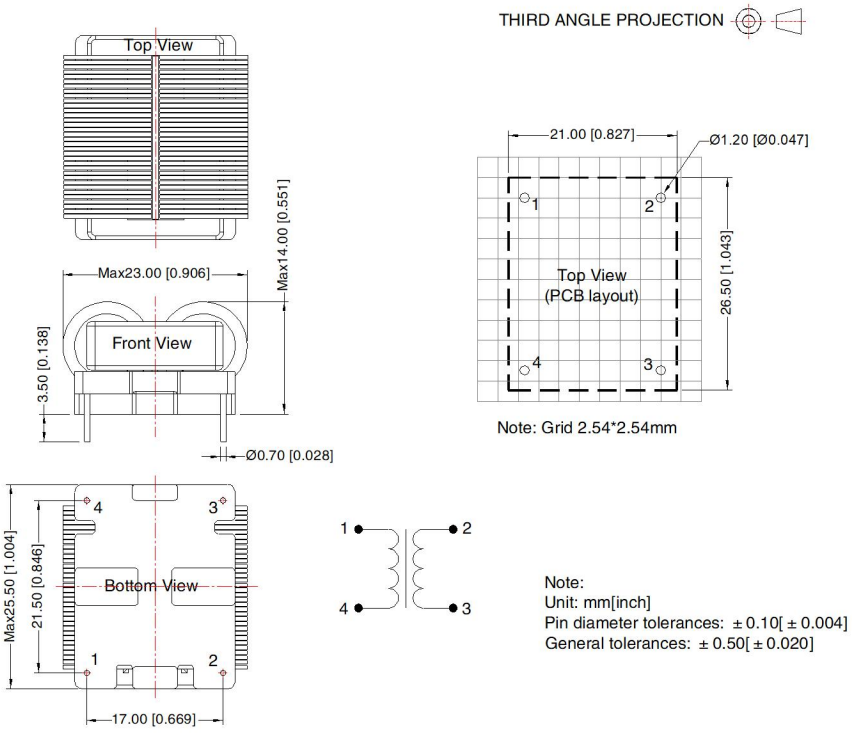


Fig. 1

FL2D-80-162 Schematic Diagram Of Pin Mark

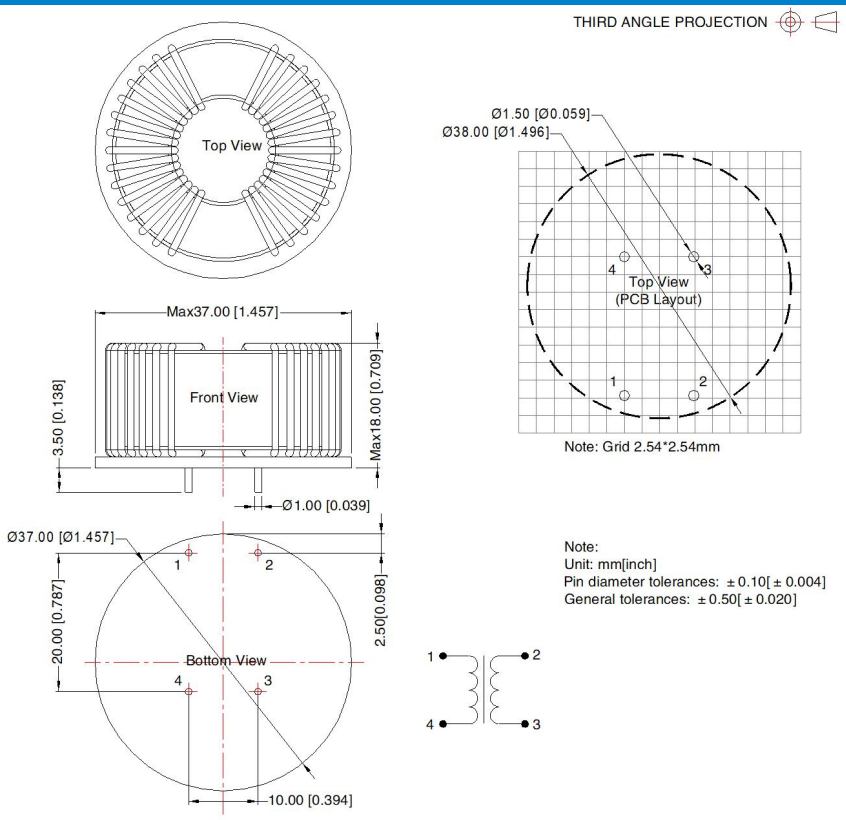


Fig. 2

FFL2DN-80-151 Schematic Diagram Of Pin Mark

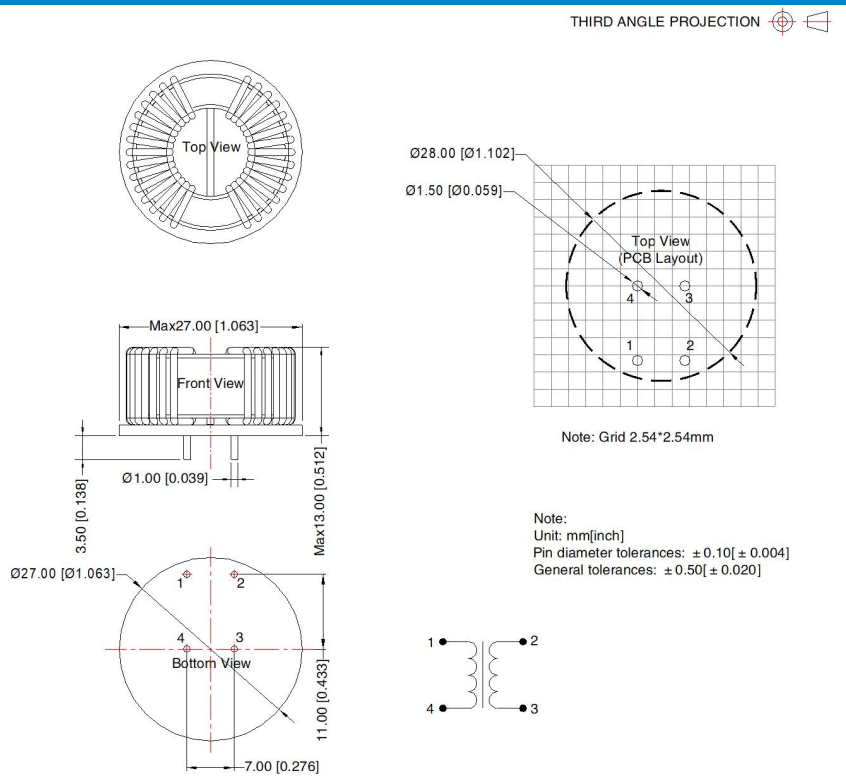


Fig. 3

FL2D-A2-103 Schematic Diagram Of Pin Mark

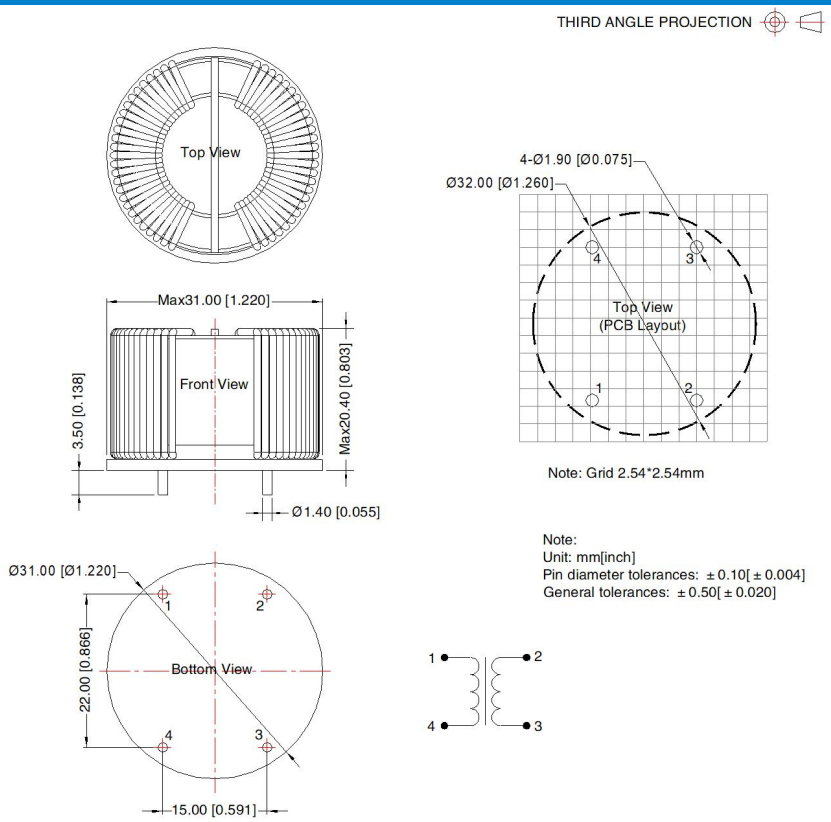


Fig. 4

FL2D-A3-202 Schematic Diagram Of Pin Mark

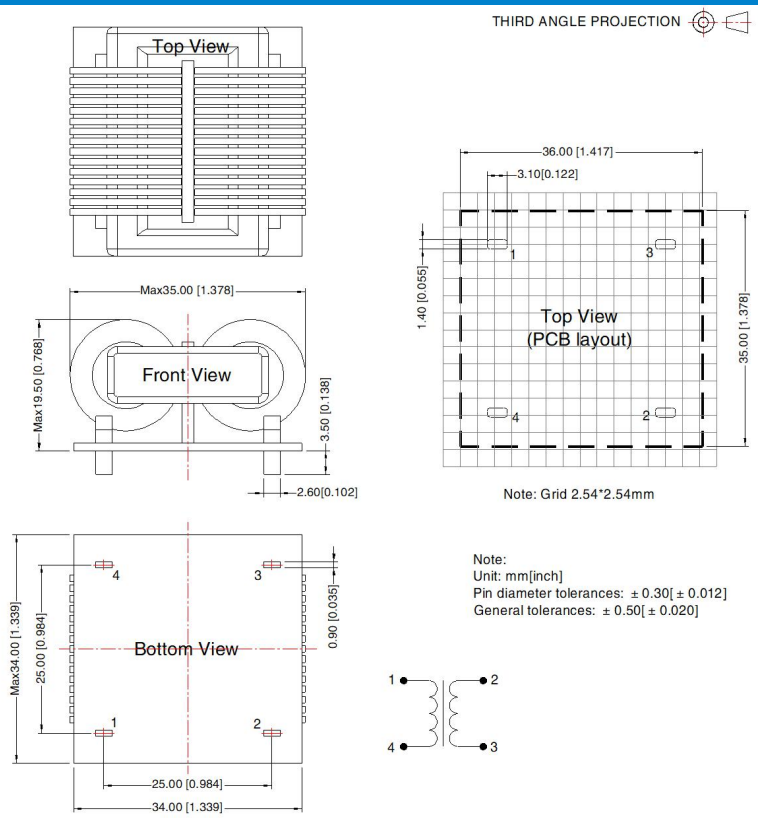


Fig. 5

FL2D-D0-250 Schematic Diagram Of Pin Mark

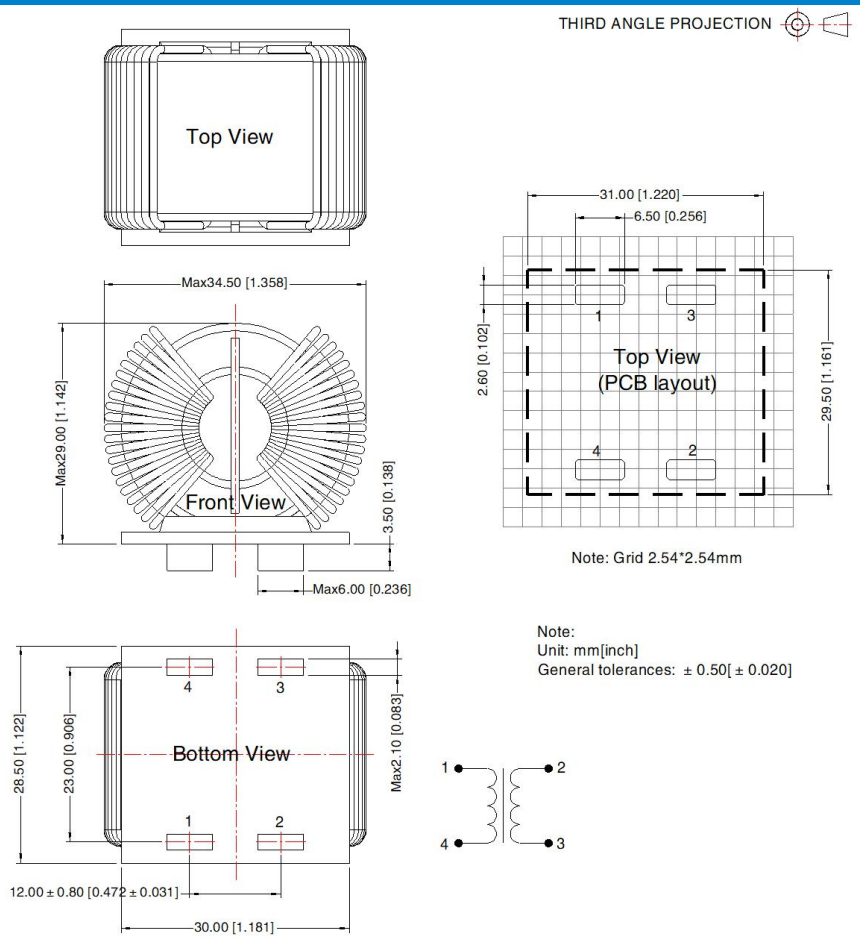


Fig. 6

Note:

1. For additional information on Product Packaging please refer to www.mornsun-power.com. Packaging bag number: 58240096(FL2D-A2-103),58210146(FL2D-20-183),58210453(FL2D-D0-250),58210367(FL2D-A3-202),58210365(FL2DN-80-151),58240094(FL2D-80-162);
2. Unless otherwise specified, data in this data sheet should be tested under the conditions of Ta=25℃, humidity<75%RH;
3. All index testing methods in this datasheet are based on company corporate standards;
4. The performance indexes of the product models listed in this manual are as above, but some indexes of non-standard model products will exceed the above-mentioned requirements, and please directly contact our technicians for specific information;
5. We can provide product customization service, please contact our technicians directly for specific information;
6. Products are related to laws and regulations: see "Features" ;
7. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

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