



T/E CORE 一体电感

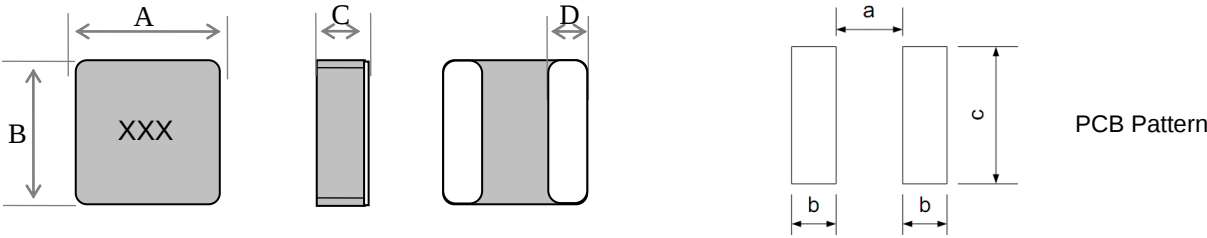
MOLDED POWER INDUCTOR

产品型号 PRODUCT IDENTIFICATION

<u>PLWE</u>	<u>4020</u>	<u>TP</u>	-	<u>3R3</u>	<u>M</u>	<u>T</u>
①	②	③		④	⑤	⑥
②外形尺寸 Dimensons (mm)				①分类 Type		
Example		Dimensons (A×B×C)		PLWE TCORE 一体电感 Molded Power Inductor		
322512		3.2×2.5×1.2				
4020		4.0×4.0×2.0				
③内部代号 Internal Code				④公称电感量 Norminal Inductance		
TP , X , H, D				Example Norminal Value		
				1R0 1.0μH		
				100 10μH		
				R68 0.68μH		
⑤电感量公差 Inductance Tolerance				⑥包装 Packing T: 编带 Tape		
J: ±5%; K: ±10%; M: ±20%; N: ±30%						

外观尺寸 SHAPE AND DIMENSIONS

PLWE Series



Unit: mm

Type	A	B	C	D	E	F	a	b	c
PLWE201610	2.0±0.2	1.6±0.2	1.0max	0.6±0.2			0.80	0.80	1.70
PLWE252012	2.5±0.2	2.0±0.2	1.2max	0.8±0.2			0.80	1.00	2.10
PLWE322512	3.2±0.2	2.5±0.2	1.2max	1.0±0.2			1.00	1.20	2.60
PLWE322520	3.2±0.2	2.5±0.2	2.0max	1.0±0.2			1.00	1.20	2.60
PLWE4015	4.0±0.2	4.0±0.2	1.5max	1.2±0.3			1.20	1.50	4.20
PLWE4020	4.0±0.2	4.0±0.2	2.0max	1.2±0.3			1.20	1.50	4.20
PLWE4030	4.0±0.2	4.0±0.2	3.0max	1.2±0.3			1.20	1.50	4.20
PLWE5020	5.3±0.2	5.1±0.2	2.1max	1.4±0.3			1.70	1.90	5.70
PLWE5030	5.3±0.2	5.1±0.2	3.1max	1.4±0.3			1.70	1.90	5.70
PLWE6030	6.6±0.2	6.4±0.2	3.1max	1.9±0.3			2.30	2.30	7.00
PLWE6050	6.6±0.2	6.4±0.2	5.1max	1.9±0.3			2.30	2.30	7.00
PLWE7030	7.8±0.2	7.8±0.2	3.1max	2.4±0.3			2.50	2.70	8.20
PLWE1040	11.6±0.3	10.5±0.3	4.1max	2.2±0.3			4.00	2.50	10.0
PLWE1060	11.6±0.3	10.5±0.3	6.1max	2.2±0.3			4.00	2.50	10.0

包 装 PACKAGING										
TYPE	201610	252012	322512~20	4012~20	4030	5020~30	6030~50	7030	1040	1060
Q'TY(pcs)	4000	3000	2000	3000	2000	2000	1000	1000	700	500

PLWE 201610 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE201610X-R47M	0.47 $\pm$ 20%	25	22	5.5	5
PLWE201610X-R68M	0.68 $\pm$ 20%	32	26	4.7	4.3
PLWE201610X-1R0M	1.0 $\pm$ 20%	43	35	4.2	4.0
PLWE201610X-1R5M	1.5 $\pm$ 20%	100	85	2.9	2.3
PLWE201610X-2R2M	2.2 $\pm$ 20%	140	120	2.8	2.1
PLWE201610X-3R3M	3.3 $\pm$ 20%	170	145	2.0	1.5
PLWE201610X-4R7M	4.7 $\pm$ 20%	220	190	1.8	1.4
PLWE201610X-100M	10 $\pm$ 20%	*			

*无数据代表未量产，下同 No data means no mass production, the same below

PLWE 252012 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE252012X-R47M	0.47 $\pm$ 20%	19	13	7	6
PLWE252012X-R68M	0.68 $\pm$ 20%	23	17	6	5
PLWE252012X-1R0M	1.0 $\pm$ 20%	30	26	4.3	3.3
PLWE252012X-1R5M	1.5 $\pm$ 20%	52	42	4	3
PLWE252012X-2R2M	2.2 $\pm$ 20%	80	66	3.3	2.2
PLWE252012X-3R3M	3.3 $\pm$ 20%	110	97	2.7	1.8
PLWE252012X-4R7M	4.7 $\pm$ 20%	150	125	2.0	1.5

(1) 饱和电流：施加直流偏置电流测试感量比初始感量下降 30%时的电流值（@20℃）。

IR sat. :The value of DC current when the inductance is 30% lower than its initial value (@20℃)。

(2) 温升电流：施加直流偏置电流致电感本身发热且温升值 $\Delta T=40^{\circ}\text{C}$ 时的电流值。

IR rms. :The value of DC current when the inductor's temperature added 40℃（ $\Delta T=40^{\circ}\text{C}$ ）。

PLWE 322512 /20 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE322512X-R47M	0.47 $\pm$ 20%	24	20	9	6
PLWE322512X-R68M	0.68 $\pm$ 20%				
PLWE322512X-1R0M	1.0 $\pm$ 20%	36	30	6.4	4
PLWE322512X-1R5M	1.5 $\pm$ 20%				
PLWE322512X-2R2M	2.2 $\pm$ 20%				
PLWE322512X-3R3M	3.3 $\pm$ 20%				
PLWE322520TP-1R0M	1.0 $\pm$ 20%	25	18	10	4.3
PLWE322520TP-1R5M	1.5 $\pm$ 20%				
PLWE322520TP-2R2M	2.2 $\pm$ 20%	46	37	6	3
PLWE322520TP-3R3M	3.3 $\pm$ 20%				
PLWE322520TP-4R7M	4.7 $\pm$ 20%				

PLWE 4015 /20 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE4015H-R47M	0.47 $\pm$ 20%	6.1	5.5	13	13.9
PLWE4015H-R68M	0.68 $\pm$ 20%	9.2	8.3	8	9.6
PLWE4015H-1R0M	1.0 $\pm$ 20%	12.5	11.3	6	8.3
PLWE4015H-1R5M	1.5 $\pm$ 20%				
PLWE4015H-2R2M	2.2 $\pm$ 20%				
PLWE4020X-R47M	0.47 $\pm$ 20%	4.8	4.2	11.2	17
PLWE4020X-1R0M	1.0 $\pm$ 20%	8.4	7.6	7.6	11.7
PLWE4020X-1R5M	1.5 $\pm$ 20%	13.6	12.4	6.3	9.5
PLWE4020X-2R2M	2.2 $\pm$ 20%	22.7	20.6	5.6	7.8
PLWE4020X-3R3M	3.3 $\pm$ 20%	28.6	26	4.7	6.6
PLWE4020TP-1R0M	1.0 $\pm$ 20%	20	14	12	6
PLWE4020TP-1R5M	1.5 $\pm$ 20%				
PLWE4020TP-2R2M	2.2 $\pm$ 20%	33	27	10	5
PLWE4020TP-3R3M	3.3 $\pm$ 20%	38	32	6	3.5
PLWE4020X-4R7M	4.7 $\pm$ 20%				
PLWE4020X-6R8M	6.8 $\pm$ 20%				
PLWE4020X-100M	10.0 $\pm$ 20%				

PLWE 4030 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE4030X-R47M	0.47 $\pm$ 20%	3.1	2.6	15.6	17
PLWE4030X-R68M	0.68 $\pm$ 20%	3.9	3.5	14.3	14.1
PLWE4030X-1R0M	1.0 $\pm$ 20%	5.7	5.2	11.9	12.6
PLWE4030X-1R5M	1.5 $\pm$ 20%	8.6	7.8	9.6	9.8
PLWE4030X-2R2M	2.2 $\pm$ 20%	11.8	10.7	7.1	9
PLWE4030X-3R3M	3.3 $\pm$ 20%	17.1	16.1	5.3	8
PLWE4030X-4R7M	4.7 $\pm$ 20%	23.4	21.3	4.8	6.1
PLWE4030X-6R8M	6.8 $\pm$ 20%	37.4	34	4.1	4.6
PLWE4030X-100M	10.0 $\pm$ 20%				

PLWE 5020 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE5020-R56M	0.56 $\pm$ 20%	5.2	4.7	25	19
PLWE5020-R68M	0.68 $\pm$ 20%	6.1	5.5	15.2	13.5
PLWE5020-1R0M	1.0 $\pm$ 20%	8.7	7.9	12	10.2
PLWE5020-1R5M	1.5 $\pm$ 20%	13.2	11.8	8.9	7.8
PLWE5020-2R2M	2.2 $\pm$ 20%				
PLWE5020-3R3M	3.3 $\pm$ 20%				
PLWE5020-4R7M	4.7 $\pm$ 20%				

PLWE 5030 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE5030-R33M	0.33 $\pm$ 20%	2.85	2.65	28	24
PLWE5030-R68M	0.68 $\pm$ 20%	4.5	4.05	21	18
PLWE5030-1R0M	1.0 $\pm$ 20%	5.8	5.3	15.5	13.7
PLWE5030-1R5M	1.5 $\pm$ 20%	9	8.1	12.9	11.6
PLWE5030-2R2M	2.2 $\pm$ 20%	12.5	11.2	11.5	10.2
PLWE5030-3R3M	3.3 $\pm$ 20%	18.9	16.5	9	7.9
PLWE5030-4R7M	4.7 $\pm$ 20%	24.5	21.9	7.5	7.5
PLWE5030-6R8M	6.8 $\pm$ 20%				
PLWE5030-100M	10.0 $\pm$ 20%				

PLWE 6030 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE6030-R47M	0.47 $\pm$ 20%	2.7	2.4	30	24.7
PLWE6030-R68M	0.68 $\pm$ 20%	3.5	3.1	26	22.2
PLWE6030-1R0M	1.0 $\pm$ 20%	5.3	4.8	22.6	17.5
PLWE6030-1R5M	1.5 $\pm$ 20%	7.5	6.8	16.5	14.8
PLWE6030-2R2M	2.2 $\pm$ 20%	10.8	9.7	15	12.1
PLWE6030-3R3M	3.3 $\pm$ 20%	15.8	14.3	14.5	10.8
PLWE6030-4R7M	4.7 $\pm$ 20%				
PLWE6030-6R8M	6.8 $\pm$ 20%				

PLWE 6050 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE6050-1R0M	1.0 $\pm$ 20%				
PLWE6050-1R5M	1.5 $\pm$ 20%	5.5	5	20	17.7
PLWE6050-2R2M	2.2 $\pm$ 20%	6.5	5.8	16	14.2
PLWE6050-3R3M	3.3 $\pm$ 20%	9.5	8.6	14	11.7
PLWE6050-4R7M	4.7 $\pm$ 20%	14.5	13	11.5	9.7
PLWE6050-6R8M	6.8 $\pm$ 20%	18.5	16.5	10.2	8.9
PLWE6050-100M	10.0 $\pm$ 20%				

PLWE 7030 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE7030-1R0M	1.0 $\pm$ 20%	3.8	3.5	28	24.7
PLWE7030-1R5M	1.5 $\pm$ 20%	6.5	5.8	23.5	20.7
PLWE7030-2R2M	2.2 $\pm$ 20%	9	8.1	18	16.2
PLWE7030-3R3M	3.3 $\pm$ 20%	13.5	12.2	12.8	11.2
PLWE7030-4R7M	4.7 $\pm$ 20%	17.5	15.8	10.5	9.2
PLWE7030-5R6M	5.6 $\pm$ 20%	20.5	18.5	10.2	8.9
PLWE7030-100M	10.0 $\pm$ 20%				

PLWE 1040 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE1040-1R2M	1.2 $\pm$ 20%	2.52	2.25	33	27
PLWE1040-1R5M	1.5 $\pm$ 20%	3.2	2.9	28	22
PLWE1040-2R2M	2.2 $\pm$ 20%	4.8	4.3	25.5	22.7
PLWE1040-3R3M	3.3 $\pm$ 20%	6.8	6.1	18	16.2
PLWE1040-4R7M	4.7 $\pm$ 20%	12	10.5	13.5	11.5
PLWE1040-6R8M	6.8 $\pm$ 20%				
PLWE1040-100M	10.0 $\pm$ 20%				

PLWE 1060 系列

型 号 Part No.	感量 L @100K,1V	直流电阻 DCR		饱和电流(1) IR sat.	温升电流(2) IR rms.
单位 Unit	(μ H)	Max (m Ω)	Typ.(m Ω)	(A)	(A)
PLWE1060-1R0M	1.0 $\pm$ 20%	1.95	1.75	48	40
PLWE1060-1R5M	1.5 $\pm$ 20%	2.5	2.25	36	32
PLWE1060-2R2M	2.2 $\pm$ 20%	3.5	3.2	30	27.2
PLWE1060-3R3M	3.3 $\pm$ 20%	5.1	4.6	26	23.2
PLWE1060-4R7M	4.7 $\pm$ 20%	6.85	6.2	22.5	20.2
PLWE1060-5R5M	5.6 $\pm$ 20%	7.85	7.1	19.7	17.5
PLWE1060-6R8M	6.8 $\pm$ 20%	8.5	7.7	18.5	16.5
PLWE1060-8R2M	8.2 $\pm$ 20%	13.5	12.1	16.9	15
PLWE1060-100M	10.0 $\pm$ 20%	14	12.5	14.5	12
PLWE1060-150M	15.0 $\pm$ 20%	20.5	18.5	12.5	10.5
PLWE1060-220M	22.0 $\pm$ 20%				

(1) 饱和电流：施加直流偏置电流测试感量比初始感量下降 30%时的电流值（@20℃）。

IR sat. :The value of DC current when the inductance is 30% lower than its initial value (@20℃)。

(2) 温升电流：施加直流偏置电流致电感本身发热且温升值 $\Delta T=40^{\circ}\text{C}$ 时的电流值。

IR rms. :The value of DC current when the inductor's temperature added 40°C ($\Delta T=40^{\circ}\text{C}$) .