



产品规格书

PRODUCT SPECIFICATION

客户名称

CUSTOMER

宏业产品系列

PTHS 系列一体成型功率电感器

PRODUCT SERIES

PTHS SERIES MOLDING POWER CHIP INDUCTOR

宏业规格型号

PRODUCT TYPE

客户型号规格

CUSTOMER'S PRODUCT TYPE

研发	品质	业务	批准

深圳市宏业兴电子有限公司 SHENZHEN HONGYEX ELECTRONICS CO.,LTD.

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Company address: 3rd Floor, Building 1, Huayun Building, No. 101 Zhenxing Road, Futian District, Shenzhen

工厂地址: 惠州市罗阳镇鸿达工业区五号宏业兴工业园

Factory address: Hongyexing Industrial Park, No.5, Hongda Industrial Zone, Luoyang Town, Huizhou

City, Guangdong Province, China

备注 REMARK:

客户回签 CUSTOMER APPROVAL

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版本编码 Version number: A2

序号 NO.	修改日期 DATE	修改内容 CHANGE CONTENT	版本号 Version NO.
1	2024.3.21	初版 First edition	A1
2	2025.2.25	更新参数, 更新产品体积 Update Parameters, Update Product Volume	A2



1 用途 APPLICATIONS

广泛应用于笔记本电脑和 PC 电脑、交换机和服务器的、基站、DC/DC 转换器、电池电源管理、固态硬盘模组等电子设备。

Laptops and PCs, Switch and servers, Base stations, DC/DC converters, Battery powered devices, SSD modules.

2 特点 FEATURES

大电流、低损耗的金属材料

Metal material for large current and low loss.

通过金属粉芯实现高性能（Isat）。

High performance (Isat) realized by metal dust core.

通过低 Rdc 实现低损耗。

Low loss realized with low Rdc.

4 闭合磁路设计，减少漏磁。

Closed magnetic circuit design reduces leakage flux.

乙烯基热喷涂，表面致密性更好。

Vinyl thermal spray, better surface compactness.

环境要求必须符合 QESP-44 文件

Environmental requirements must comply with the QESP-44 document

100%无铅（Pb）满足 RoHS2.0 和 卤素、Reach 等法律法规要求标准。

100% lead (Pb) free meet RoHS2.0 and Halogen , Reach and other legal and regulatory requirements standard.

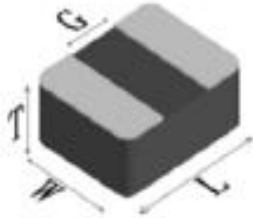
3 产品编码 PRODUCT IDENTIFICATION

PTHS 201610 - R47 M

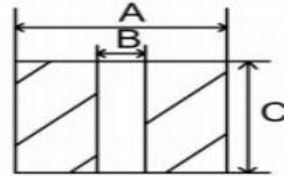
① ② ③ ④

①	Type: Wire Wound Chip Inductor
②	External Dimensions (L×W) (mm): 2.0×1.6×1.0
③	Nominal Inductance: R10, 0.1μH; 1R0, 1.0μH; 100, 10μH
④	Inductance Tolerance: K, ±10%; M, ±20%;

4 外形及尺寸 SHAPE AND DIMENSIONS



Recommend Land Pattern Dimensions



Series	L	G	W	T	A	B	C
PTHS100765	1.0 ± 0.1	0.4 ± 0.2	0.7 ± 0.1	0.65Max.	1.1	0.3	0.8
PTHS121065	1.2 ± 0.2	0.4 ± 0.2	1.0 ± 0.2	0.65Max.	1.3	0.3	1.1
PTHS160865	1.6 ± 0.2	0.6 ± 0.2	0.8 ± 0.2	0.65Max.	1.7	0.5	0.9
PTHS160808	1.6 ± 0.2	0.6 ± 0.2	0.8 ± 0.2	0.80Max.	1.7	0.5	0.9
PTHS141265	1.4 ± 0.2	0.5 ± 0.2	1.2 ± 0.2	0.65Max.	1.5	0.4	1.3
PTHS141207	1.4 ± 0.2	0.5 ± 0.2	1.2 ± 0.2	0.70Max.	1.5	0.4	1.3
PTHS141208	1.4 ± 0.2	0.5 ± 0.2	1.2 ± 0.2	0.80Max.	1.5	0.4	1.3
PTHS201265	2.0 ± 0.2	0.6 ± 0.2	1.2 ± 0.2	0.65Max.	2.1	0.5	1.3
PTHS201208	2.0 ± 0.2	0.6 ± 0.2	1.2 ± 0.2	0.80Max.	2.1	0.5	1.3
PTHS201210	2.0 ± 0.2	0.6 ± 0.2	1.2 ± 0.2	1.00Max.	2.1	0.5	1.3
PTHS201607	2.0 ± 0.2	0.6 ± 0.2	1.6 ± 0.2	0.70Max.	2.1	0.5	1.7
PTHS201608	2.0 ± 0.2	0.6 ± 0.2	1.6 ± 0.2	0.80Max.	2.1	0.5	1.7
PTHS201610	2.0 ± 0.2	0.6 ± 0.2	1.6 ± 0.2	1.00Max.	2.1	0.5	1.7
PTHS201612	2.0 ± 0.2	0.6 ± 0.2	1.6 ± 0.2	1.20Max.	2.1	0.5	1.7
PTHS252075	2.5 ± 0.2	0.8 ± 0.2	2.0 ± 0.2	0.75Max.	2.6	0.7	2.1
PTHS252008	2.5 ± 0.2	0.8 ± 0.2	2.0 ± 0.2	0.80Max.	2.6	0.7	2.1
PTHS252010	2.5 ± 0.2	0.8 ± 0.2	2.0 ± 0.2	1.00Max.	2.6	0.7	2.1
PTHS252012	2.5 ± 0.2	0.8 ± 0.2	2.0 ± 0.2	1.20Max.	2.6	0.7	2.1
PTHS322510	3.2 ± 0.2	1.0 ± 0.2	2.5 ± 0.2	1.00Max.	3.2	0.9	2.5
PTHS322512	3.2 ± 0.2	1.0 ± 0.2	2.5 ± 0.2	1.20Max.	3.2	0.9	2.5
PTHS322520	3.2 ± 0.2	1.0 ± 0.2	2.5 ± 0.2	2.00Max.	3.2	0.9	2.5
PTHS303010	3.0 ± 0.1	0.9 ± 0.2	3.0 ± 0.1	1.00Max.	3	0.8	3
PTHS303012	3.0 ± 0.1	0.9 ± 0.2	3.0 ± 0.1	1.20Max.	3	0.8	3
PTHS303015	3.0 ± 0.1	0.9 ± 0.2	3.0 ± 0.1	1.50Max.	3	0.8	3
PTHS303018	3.0 ± 0.1	0.9 ± 0.2	3.0 ± 0.1	1.80Max.	3	0.8	3
PTHS303020	3.0 ± 0.1	0.9 ± 0.2	3.0 ± 0.1	2.00Max.	3	0.8	3
PTHS404010	4.1 ± 0.2	1.3 ± 0.2	4.1 ± 0.2	1.00Max.	4.1	1.1	4.1

PTHS404012	4.1±0.2	1.3±0.2	4.1±0.2	1.20Max.	4.1	1.1	4.1
PTHS404020	4.1±0.2	1.3±0.2	4.1±0.2	2.00Max.	4.1	1.1	4.1
PTHS404030	4.1±0.2	1.3±0.2	4.1±0.2	3.00Max.	4.1	1.1	4.1

5 特性参数 SPECIFICATIONS

详见附录 A。Please refer to Appendix A.

工作温度范围 Operating temperature range: -40℃~+125℃

储存温度范围 Storage temperature range: -10℃~+40℃, 70% RH.

6 测试及可靠性 TESTING AND RELIABILITY

6.1 测试环境条件 Test Conditions

一般按照以下环境条件测试（有特殊要求的除外），：

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

a. 温度 Ambient Temperature: 20±15℃

b. 湿度 Relative Humidity: 65±20%

c. 大气压 Air Pressure: 86 kPa to 106 kPa

如果对测试结果有疑义，可以按照以下条件复测：

If any doubt on the results, measurements/tests should be made within the following limits:

a. 温度 Ambient Temperature: 20±2℃

b. 湿度 Relative Humidity: 65±5%

c. 大气压 Air Pressure: 86kPa to 106 kPa

6.2 测试及可靠性 Testing and reliability

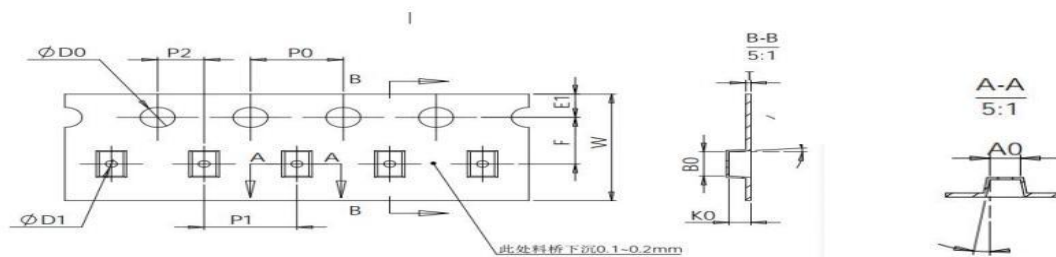
Item	Requirements	Test Methods and Remarks								
Insulation Resistance	≥100MΩ	100 VDC between inductor coil and The middle of the top surface of the body for 60 seconds.								
Solderability	90% or more of electrode area shall be coated by new solde.	Dip pads in flux . Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 245±5℃ . Immersion Time: (5±1) s.								
Resistance to Soldering Heat	No visible mechanical damage. Inductance change: Within ±10%.	Dip pads in flux. Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 260±5℃ . Immersion Time: 10±1sec.								
Adhesion of teral electrode	Strong bond between the pad and the core, without come off PCB.	Inductors shall be subjected to (260±5)℃ for (20±5)s Soldering in the base whit 0.3mm solder. And then aplombelectrode way plus tax X N for (10±1) seconds. <table><tr><td>series</td><td>"X" N</td></tr><tr><td>1008</td><td>6</td></tr><tr><td>1210~1608</td><td>8</td></tr><tr><td>2012</td><td>12</td></tr></table>	series	"X" N	1008	6	1210~1608	8	2012	12
series	"X" N									
1008	6									
1210~1608	8									
2012	12									

High temperature	No case deformation or change in appearance. Inductance change: Within $\pm 10\%$	Temperature: $125 \pm 2^\circ\text{C}$. Time : 1000 hours. Measurement at 24 ± 4 hours after test conclusion.
Low temperature	No visible mechanical damage. Inductance change: Within $\pm 10\%$	Temperature: $-40 \pm 2^\circ\text{C}$. Time : 1000 hours. Measurement at 24 ± 4 hours after test conclusion.
Thermal shock	No visible mechanical damage. Inductance change: Within $\pm 10\%$	The test sample shall be placed at $(-40 \pm 2)^\circ\text{C}$ and $(125 \pm 2)^\circ\text{C}$ for (30 ± 3) , different temperature conversion time is 2~3 utes. The temperature cycle shall be repeated 32 cycles. Placed at room temperature for 2 hours, within 48 ± 4 hours of testing.
Temperature characteristic	Inductance change Pc-b,Pc-d: Within $\pm 10\%$	a: $+20^\circ\text{C}$ (30~45) $\rightarrow$ b: -40°C (30~45) $\rightarrow$ c: $+20^\circ\text{C}$ (30~45) $\rightarrow$ d: $+125^\circ\text{C}$ (30~45) $\rightarrow$ e: $+20^\circ\text{C}$ (30~45) $\frac{P}{c-b} = \frac{L - L}{L} \times 100\% \quad \frac{P}{c-d} = \frac{L - L}{L} \times 100\%$
Static Humidity	No visible mechanical damage. Inductance change: Within $\pm 10\%$	Inductors shall be subjected to $(95 \pm 3)\% \text{RH}$. at $(60 \pm 2)^\circ\text{C}$ for (1000 ± 4) h. Placed at room temperature for 2 hours, within 48 hours of testing.
Life	No visible mechanical damage. Inductance change: Within $\pm 10\%$	Inductors shall be store at $(85 \pm 2)^\circ\text{C}$ for (1000 ± 4) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing

7 包装及储存 Packaging, Storage

7.1 包装 Packaging

(1) 载带&载带尺寸 Tape&Tape Dimensions(Unit: mm)



Series	W	A0	B0	D0	D1	E	F	K0	P0	P2	P1	T	包 装 数 量
公差	/	/	/	± 0.10	± 0.20	± 0.10	± 0.10	/	± 0.10	± 0.10	± 0.10	± 0.05	
100765	8.0 ± 0.10	0.90 ± 0.05	1.25 ± 0.05	1.5	0.6	1.75	3.5	0.80 ± 0.10	4	2	4	0.22	5 K
121065	$8.0 \pm$	1.30 ± 0.05	1.50 ± 0.05	1.5	0.7	1.75	3.5	$0.80 \pm$	4	2	4	0.22	3



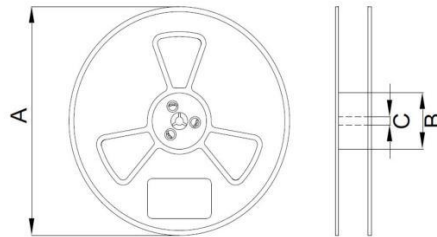
	0.10							0.10					K
160865	8.0± 0.10	1.00±0.05	1.82±0.05	1.5	0.6	1.75	3.5	0.80± 0.10	4	2	4	0.22	
Series	W	A0	B0	D0	D1	E	F	K0	P0	P2	P1	T	
160808	8.0± 0.10	1.04±0.05	1.82±0.05	1.5	0.6	1.75	3.5	0.95± 0.05	4	2	4	0.22	
141265	8.0± 0.10	1.50+0.10/- 0.05	1.70+0.10/- 0.05	1.5	0.6	1.75	3.5	0.80± 0.10	4	2	4	0.22	
141207/14 1208	8.0± 0.10	1.50+0.10/- 0.05	1.70+0.10/- 0.05	1.5	0.6	1.75	3.5	0.95± 0.10	4	2	4	0.22	
201265	8.0± 0.10	1.40+0.10/- 0.05	2.25+0.10/- 0.05	1.5	1	1.75	3.5	0.80± 0.10	4	2	4	0.25	
201208	8.0± 0.10	1.50±0.10	2.30±0.10	1.5	1	1.75	3.5	1.00± 0.10	4	2	4	0.22	3 K
201210	8.0± 0.10	1.50±0.10	2.35±0.10	1.5	1	1.75	3.5	1.20± 0.10	4	2	4	0.22	
201665	8.0± 0.10	1.95±0.10	2.45±0.10	1.5	1	1.75	3.5	0.80± 0.10	4	2	4	0.25	
201608	8.0± 0.10	1.90±0.10	2.35±0.10	1.5	1	1.75	3.5	1.00± 0.10	4	2	4	0.25	
201610	8.0± 0.10	1.95±0.10	2.35±0.10	1.5	1	1.75	3.5	1.15± 0.10	4	2	4	0.25	
201612	8.0± 0.10	1.90±0.10	2.30±0.10	1.5	1	1.75	3.5	1.35± 0.10	4	2	4	0.25	
252075/25 2008	8.0± 0.10	2.35+0.10/- 0.05	2.80+0.10/- 0.05	1.5	1	1.75	3.5	1.00± 0.10	4	2	4	0.23	
252010	8.0± 0.10	2.45±0.10	2.80±0.10	1.5	1	1.75	3.5	1.20± 0.10	4	2	4	0.25	
252012	8.0± 0.10	2.35+0.10/- 0.05	2.80+0.10/- 0.05	1.5	1	1.75	3.5	1.35± 0.10	4	2	4	0.23	
322510	8.0± 0.10	2.80+0.10/- 0.05	3.50+0.10/- 0.05	1.5	1	1.75	3.5	1.15± 0.10	4	2	4	0.25	
322512	8.0± 0.10	2.90+0.10/- 0.05	3.50+0.10/- 0.05	1.5	1	1.75	3.5	1.35± 0.10	4	2	4	0.25	
322520	8.0± 0.10	2.90+0.10/- 0.05	3.50+0.10/- 0.05	1.5	1	1.75	3.5	2.20± 0.10	4	2	4	0.23	2 K
303010/30 3012	12.0± 0.30	3.40±0.10	3.40±0.10	1.5	1.5	1.75	5.5	1.40± 0.10	4	2	8	0.3	3 K
303015	12.0±	3.40±0.10	3.40±0.10	1.5	1.5	1.75	5.5	1.70±	4	2	8	0.3	

	0.30							0.10				
303018	12.0± 0.30	3.25±0.10	3.25±0.10	1.5	1.5	1.75	5.5	2.00± 0.10	4	2	8	0.23
Series	W	A0	B0	D0	D1	E	F	K0	P0	P2	P1	T
303020	12.0± 0.30	3.40±0.10	3.45±0.10	1.5	1.5	1.75	5.5	2.20± 0.10	4	2	8	0.3
404012	12.0± 0.30	4.40±0.10	4.40±0.10	1.5	1.5	1.75	5.5	1.30± 0.10	4	2	8	0.3
404020	12.0± 0.30	4.40±0.10	4.40±0.10	1.5	1.5	1.75	5.5	2.20± 0.10	4	2	8	0.3
404030	12.0± 0.30	4.40±0.10	4.40±0.10	1.5	1.5	1.75	5.5	3.10± 0.10	4	2	8	0.35
												2
												K

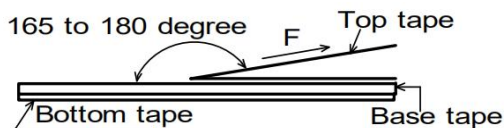
(2) 卷盘 REEL

Type	A ±2.0	B ±2.0	C ±2.0
All	178	60	13

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



(3) 剥离力 PEELING OFF FORCE



剥离速度 Speed of peeling off	300mm/s
剥离力 Peeling off force	0.1N to 1N(10g to 100g).

(4) 包装 Packaging

- 卷盘和干燥剂一同放入尼龙或塑料袋中。Reel and a bag of desiccant shall be packed in Nylon or plastic bag.
- 每个内盒中最多装 2 个上述袋子。Maximum of 2 bags shall be packaged in a inner box.
- 每个外箱中最多装 8 个内盒。Maximum of 8 inner box shall be packaged in a outer box.

7.2 储存 Storage

7.2.1 不得暴露在高温高湿环境下储存，否则导致产品外电极和焊接性恶化变差。建议包装好的产品储存在低于 40℃、小于 70% RH 条件下。The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Packages must be stored at 40℃ or less and 70% RH or less.

7.2.2 不得暴露在灰尘或腐蚀性气体（如氯化氢，亚硫酸气体或硫化氢等）环境下储存，否则会导致产品外电极和焊接性恶化变差。The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust or harmful gas (hydrogen chloride, sulfurous acid gas or hydrogen sulfide).

7.2.3 如果暴露在阳光直射或加热环境下储存，会导致包装材料变形。Packaging material may be deformed if packages are stored where they are exposed to heat or direct sunlight.

7.2.4 采用聚乙烯热封载带形式的最小包装，在使用之前不要拆开。如果拆开了，应尽快使用卷盘保护起来。Minimum packages, such as polyvinyl heat-seal packages shall not be opened until just before they are used. If opened, use the reels as soon as possible.

7.2.5 在符合 8.2.1 和 8.2.2 要求的环境下储存，从产品发货日期开始 6 个月内，产品的焊接性能够满足 7.2 规定的要求。Solderability specified in composite specification 7.2 shall be for 6 months from the date of delivery on condition that they are stored at the environment specified clause 8.2.1 & 8.2.2.

在产品使用之前，如果储存期超过 6 个月，则需要复检焊接性。For those parts which passed more than 6 months shall be checked solderability before it is used.

8 安装使用及注意事项

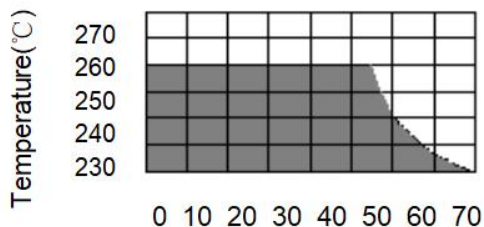
8.1 回流焊条件 Reflow soldering conditions

焊接之前产品应预热到 150℃。焊接后应冷却到 100℃。Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150℃ max. Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100℃ max.

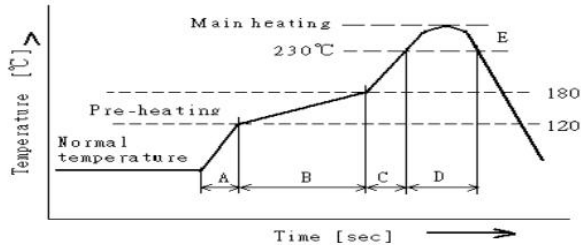
如果预热不充分，会导致产品质量恶化。Unenough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

产品应当按照下述曲线焊接。Products should be soldered within the following allowable range indicated by the slanted line.

作业前，应对焊锡炉进行校准确认，保证能够符合焊接工艺条件。The excessive soldering conditions may cause the corrosion of the electrode, When soldering is repeated, allowable time is the accumulated time.



Temperature Profile



A	Slope of temp. rise	※ 1 to 5	※ °C/sec
B	Heat time	50 to 150	※ sec
	Heat temperature	120 to 180	※ °C
C	Slope of temp. rise	1 to 5	※ °C/sec
D	Time over 230°C	90~120	※ sec
E	Peak temperature	255~260	※ °C
	Peak hold time	10 max.	※ sec
※ No. of mounting		3	※ times

8.2 返工 Reworking with soldering iron

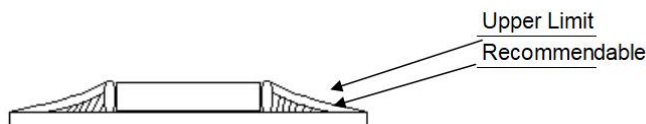
预热 Preheating	150°C, 1 minute
最高温度 Tip temperature	280°C max
焊接时间 Soldering time	3seconds max.
电烙铁输出功率 Soldering iron output	30w max.
电烙铁焊头尺寸 End of soldering iron	φ 3mm max.

*返工仅限一次。Reworking should be limited to only one time.

注意 Note: 为了避免焊接高温冲击导致产品本体开裂, 电烙铁焊头焊锡时应避免直接与产品接触。Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the ferrite material due to the thermal shock.

8.3 焊料量 Solder Volume

焊料使用时, 不得超过如下所示的上限要求。Solder shall be used not to be exceed the upper limits as shown below.



随着焊料的增加, 产品承受的机械应力也随之增加。过量的焊料所产生的机械应力, 会导致产品出现机械或电气特性失效。Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.

附录 A 电气特性表
Appendix A Electrical Characteristics

PTHS100765

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS100765-1R5M	1.5	400	500	0.4	0.3	1.1	0.9
PTHS100765-2R6M	2.6	750	900	0.55	0.4	1	0.8

PTHS121065

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS121065-2R2M	2.2	280	340	1	0.9	1.3	1.2

PTHS160865

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS160865-R47M	0.47	66	82	2.3	2	3.3	3
PTHS160865-1R0M	1	180	200	1.8	1.5	2.4	2
PTHS160865-2R2M	2.2	390	430	1.3	1.1	1.6	1.3

PTHS160808

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS160808-R22M	0.22	33	40	3.4	3	5.5	5
PTHS160808-R24M	0.24	34	41	3.3	2.9	5.3	4.8
PTHS160808-R47M	0.47	80	100	2.6	2.3	4.1	3.7
PTHS160808-R56M	0.56	85	110	2.2	1.9	4	3.5
PTHS160808-R68M	0.68	110	130	2.1	1.9	3.3	3
PTHS160808-1R0M	1	180	200	2.1	1.8	3	2.6
PTHS160808-1R5M	1.5	240	285	1.7	1.4	2.4	2



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PTHS160808-2R2M	2.2	220	260	1.4	1.2	1.5	1.3
PTHS160808-3R3M	3.3	500	600	1	0.9	1.4	1.2
PTHS160808-4R7M	4.7	585	700	1	0.8	1.2	1
PTHS160808-100M	10	1450	1600	0.5	0.45	0.8	0.7

PTHS141265

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS141265-R33M	0.33	26	32	4.4	4.2	4.4	4
PTHS141265-R47M	0.47	37	45	3	2.7	3.4	3

PTHS141207

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS141207-R24M	0.24	22	28	4	3.6	4.6	4.3
PTHS141207-R47M	0.47	34	38	3.8	3.3	3.8	3.5

PTHS141208

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS141208-R24M	0.24	22	27	4.1	3.7	6	5.7
PTHS141208-R33M	0.33	23	28	4	3.5	5.3	5
PTHS141208-R47M	0.47	29	35	3.8	3.3	4.6	4.2
PTHS141208-1R0M	1	65	77	3	2.5	3	2.5

PTHS201265

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201265-1R0M	1	78	86	2.6	2.3	2.8	2.5
PTHS201265-2R2M	2.2	215	230	1.7	1.4	1.8	1.5
PTHS201265-4R7M	4.7	470	530	1.1	0.9	1.2	1.0



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PTHS201208

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201208-R11M	0.11	10	12	7	6.5	9.5	9
PTHS201208-R15M	0.15	11	13	6.8	6.3	7.5	7
PTHS201208-R24M	0.24	18	23	6.5	5.9	6.5	6
PTHS201208-R33M	0.33	33	45	4.3	4	5.2	4.8
PTHS201208-R47M	0.47	34	50	3.5	3.3	5	4.6
PTHS201208-R68M	0.68	50	60	3.7	3.3	4.2	3.7
PTHS201208-1R0M	1	55	70	3.3	2.9	4	3.5
PTHS201208-1R5M	1.5	118	135	2.2	1.9	3	2.5
PTHS201208-2R2M	2.2	160	185	2.2	1.8	2.6	2.3
PTHS201208-3R3M	3.3	253	300	1.8	1.5	1.9	1.6
PTHS201208-4R7M	4.7	285	325	1.7	1.5	1.6	1.4
PTHS201208-6R8M	6.8	460	530	1.1	1.0	1.3	1.1

PTHS201210

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201210-R10M	0.1	8	13	7.5	7	8.5	8
PTHS201210-R22M	0.22	16	22	7.1	6.5	7.3	6.8
PTHS201210-R24M	0.24	17	23	7	6.4	7.2	6.7
PTHS201210-R33M	0.33	24	32	5.5	5	6.5	6
PTHS201210-R47M	0.47	29	36	4.7	4.3	5.5	5
PTHS201210-R68M	0.68	37	43	4.3	4	5	4.5
PTHS201210-1R0M	1	55	63	3.9	3.5	4	3.5
PTHS201210-1R5M	1.5	76	85	3.1	2.6	3.2	2.7
PTHS201210-2R2M	2.2	135	150	2	1.7	2.7	2.4
PTHS201210-3R3M	3.3	210	260	1.8	1.5	2.2	1.8
PTHS201210-4R7M	4.7	275	300	1.6	1.4	1.8	1.6
PTHS201210-6R8M	6.8	440	520	1.5	1.3	1.45	1.2
PTHS201210-100M	10	600	660	1.1	1	1.2	1

PTHS201655

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201655-R33M	0.33	34	41	4	3.5	4	3.5
PTHS201655-R47M	0.47	44	53	3.5	3	3.5	3

PTHS201607

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201607-2R2M	2.2	150	175	2.1	1.8	2.3	2

PTHS201608

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201608-R22M	0.22	14	19	6.6	5.9	6.1	5.6
PTHS201608-R24M	0.24	14	20	6.5	5.8	6	5.5
PTHS201608-R33M	0.33	18	24	5.5	4.8	5.8	5.3
PTHS201608-R47M	0.47	24	27	4.6	4.4	5.5	5
PTHS201608-R68M	0.68	39	44	3.8	3.5	4.6	4.2
PTHS201608-1R0M	1	53	60	3.6	3.3	3.3	3.1
PTHS201608-1R5M	1.5	73	85	3.1	2.8	3	2.8
PTHS201608-2R2M	2.2	123	140	2.2	2	2.5	2.3
PTHS201608-3R3M	3.3	200	220	1.8	1.5	2.1	1.8
PTHS201608-4R7M	4.7	260	290	1.6	1.4	1.7	1.5
PTHS201608-100M	10	690	800	1	0.9	1	0.9

PTHS201610

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max

PTHS201610-R10M	0.1	7	12	8.5	8	9	8.4
PTHS201610-R15M	0.15	8	14	7.6	7	8.7	8
PTHS201610-R22M	0.22	11	18	6.9	6.3	8.2	7.5
PTHS201610-R24M	0.24	12	19	6.8	6.2	8	7.4
PTHS201610-R33M	0.33	17	22	5.7	5.3	7	6.5
PTHS201610-R47M	0.47	22	25	5.5	5	6.3	5.5
PTHS201610-R68M	0.68	25	32	4.6	4.3	5.2	4.7
PTHS201610-1R0M	1	35	43	4.5	4.1	4.6	4.2
PTHS201610-1R5M	1.5	80	100	2.6	2.3	3.2	2.9
PTHS201610-2R2M	2.2	120	130	2.5	2.1	3	2.8
PTHS201610-3R3M	3.3	140	170	1.7	1.5	2.3	2
PTHS201610-4R7M	4.7	190	220	1.6	1.4	2	1.8
PTHS201610-100M	10	483	580	1	0.7	1.4	1.1

PTHS201612

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS201612-R10M	0.1	4	6	12	10	13	11.5
PTHS201612-R15M	0.15	7.5	10	10	9	12	10.5
PTHS201612-R24M	0.24	9	11	9.1	8.6	9.2	8.7
PTHS201612-R33M	0.33	10	15	7.7	7.2	7.8	7.3
PTHS201612-R47M	0.47	13	17	6.7	6	6.7	6
PTHS201612-R68M	0.68	19	23	6	5.3	6	5.3
PTHS201612-1R0M	1	30	36	5	4.5	5	4.5
PTHS201612-1R5M	1.5	40	50	4	3.5	4	3.5
PTHS201612-2R2M	2.2	77	90	3.3	2.9	3.1	2.7
PTHS201612-3R3M	3.3	135	165	2.4	2	2.7	2.3
PTHS201612-6R8M	6.8	255	300	1.8	1.7	1.9	1.7

PTHS252075

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS252075-2R2M	2.2	78	90	2.3	2	2.6	2.4
PTHS252075-100M	10	487	530	1.1	0.9	1.1	0.9

PTHS252008

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS252008-R47M	0.47	22	27	6.5	6	6	5.3
PTHS252008-1R0M	1	34	40	4.3	4	4.5	4
PTHS252008-1R5M	1.5	64	75	3.4	3	3.5	3
PTHS252008-2R2M	2.2	69	77	3	2.6	3	2.6
PTHS252008-3R3M	3.3	150	180	2.5	2.1	2.5	2.1
PTHS252008-4R7M	4.7	180	215	2	1.5	1.9	1.5
PTHS252008-100M	10	500	600	1.4	1.2	1.1	0.9

PTHS252010

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS252010-R22M	0.22	12	17	6.8	6.5	8.6	7.9
PTHS252010-R24M	0.24	12	17.5	6.7	6.4	8.5	7.8
PTHS252010-R33M	0.33	13	19	6.5	6.2	7.6	7.2
PTHS252010-R47M	0.47	15	22	6.1	5.6	6.9	6.5
PTHS252010-R68M	0.68	23	27	5.6	5	5.9	5.5
PTHS252010-1R0M	1	25	30	4.5	4.1	5.3	4.8
PTHS252010-1R5M	1.5	45	55	3.4	3	4.3	3.9
PTHS252010-2R2M	2.2	62	70	2.4	2.1	3.3	3
PTHS252010-3R3M	3.3	86	100	2.5	2.1	2.8	2.5
PTHS252010-4R7M	4.7	160	180	2	1.6	2.6	2
PTHS252010-6R8M	6.8	270	320	1.6	1.4	2.4	1.9
PTHS252010-100M	10	500	560	1.05	0.95	1.55	1.4
PTHS252010-220M	22	1100	1300	0.85	0.6	1.1	0.9

PTHS252012

P/N	L0(μH)	Rdc(mΩ)	Heat rating current Irms(A)	Saturation current Isat(A)
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	@ (0A) 1MHz	Typical	Max	Typical	Max	Typical	Max
PTHS252012-R10M	0.1	6	10	12	10.5	13.5	12.5
PTHS252012-R15M	0.15	7	11	11.5	10	13	12
PTHS252012-R22M	0.22	9	14	8.2	7.6	9.6	9
PTHS252012-R24M	0.24	10	15	8	7.5	9.3	8.8
PTHS252012-R33M	0.33	11	17	6.8	6.4	8.3	7.8
PTHS252012-R47M	0.47	13	19	6.5	6	7.5	7
PTHS252012-R68M	0.68	17	23	6.3	5.5	6.5	6
PTHS252012-R82M	0.82	19	24	5.8	5.3	6.5	5.8
PTHS252012-1R0M	1	35	42	4	3.6	5.6	5
PTHS252012-1R2M	1.2	40	45	3.8	3.4	4.5	4.1
PTHS252012-1R5M	1.5	44	50	3.7	3.2	4.5	4.1
PTHS252012-2R2M	2.2	55	65	3	2.7	3.8	3.3
PTHS252012-3R3M	3.3	80	97	2.3	1.8	3	2.7
PTHS252012-4R7M	4.7	150	170	1.8	1.5	2.4	2.1
PTHS252012-6R8M	6.8	245	270	1.6	1.4	2	1.7
PTHS252012-100M	10	330	400	1.2	1.05	1.6	1.45
PTHS252012-150M	15	500	565	1.4	1.3	1.4	1.3
PTHS252012-220M	22	740	800	1.2	1.1	1.1	1.0

PTHS322510

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS322510-R33M	0.33	11	15	8.3	7.8	8.3	7.8
PTHS322510-R47M	0.47	17	22	6.4	5.9	8.3	7.6
PTHS322510-R68M	0.68	22	28	6.2	5.7	7.5	7
PTHS322510-1R0M	1	25	30	5.4	4.9	6	5.3
PTHS322510-1R5M	1.5	34	42	4	3.6	5	4.4
PTHS322510-2R2M	2.2	55	66	3.7	3.4	4	3.5
PTHS322510-3R3M	3.3	105	120	2.7	2.3	3.7	3.3
PTHS322510-4R7M	4.7	125	140	2.3	1.9	2.8	2.5
PTHS322510-6R8M	6.8	290	320	1.9	1.6	2.4	2
PTHS322510-100M	10	325	365	2.2	1.8	2.2	1.8

PTHS322512

P/N	L0(μH)	Rdc(mΩ)	Heat rating current	Saturation current Isat(A)
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	@ (0A) 1MHz			Irms(A)			
		Typical	Max	Typical	Max	Typical	Max
PTHS322512-R10M	0.1	5.2	7	12	11	18	16.5
PTHS322512-R22M	0.22	6.6	10	9.2	8.7	11.5	11
PTHS322512-R24M	0.24	7	12	9	8.5	11	10.5
PTHS322512-R33M	0.33	9	14	8.4	8.1	10	9.5
PTHS322512-R47M	0.47	14	19	7.5	7.2	8.6	8.2
PTHS322512-R68M	0.68	18	23	7.3	6.8	8.1	7.7
PTHS322512-1R0M	1	26	30	5.3	4.8	6.6	5.8
PTHS322512-1R5M	1.5	37	44	4.7	4.3	5.1	4.7
PTHS322512-2R2M	2.2	58	70	3.6	3	4.6	4.2
PTHS322512-3R3M	3.3	75	95	2.9	2.5	3.7	3.2
PTHS322512-4R7M	4.7	115	135	2.3	2	2.9	2.6
PTHS322512-6R8M	6.8	177	210	2.1	1.9	2.8	2.4
PTHS322512-100M	10	210	230	2.2	1.8	2.3	1.9

PTHS322520

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS322520-R33M	0.33	7.5	9	9.5	9	15.5	14
PTHS322520-R47M	0.47	9	10.5	9.5	8.5	15	13
PTHS322520-R68M	0.68	12.5	14.5	9	8	13	11
PTHS322520-1R0M	1	15	17.5	8.2	7.5	9	8.3
PTHS322520-1R5M	1.5	22	25	6.5	6	6.8	6
PTHS322520-2R2M	2.2	36	43	5.4	4.8	6.5	5.5
PTHS322520-3R3M	3.3	55	60	4.5	4	4.5	3.5
PTHS322520-4R7M	4.7	81	94	3.5	3	4	3
PTHS322520-6R8M	6.8	101	125	2.8	2.3	3.8	2.9

PTHS303010

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS303010-1R0M	1	30	35	7.0	6.5	5.3	4.8
PTHS303010-2R2M	2.2	55	66	5.0	4.5	4.0	3.5

PTHS303010-4R7M	4.7	120	140	3.2	2.8	2.7	2.3
PTHS303010-6R8M	6.8	225	270	2.1	1.8	1.8	1.5
PTHS303010-100M	10	320	360	2	1.7	1.6	1.3

PTHS303012

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS303012-R10M	0.10	5.0	6.0	18.0	17.0	20.0	18.0
PTHS303012-R47M	0.47	9.0	11.0	11.0	10.0	8.5	8.0
PTHS303012-R68M	0.68	14.0	16	7.5	7.0	7.0	6.5
PTHS303012-1R0M	1	23	27	5.5	5	6	5.5
PTHS303012-1R5M	1.5	29	34	6.0	5.5	5.5	5.0
PTHS303012-2R2M	2.2	42	50	4.8	4.3	5.0	4.5
PTHS303012-4R7M	4.7	100	120	3	2.5	3	2.5
PTHS303012-100M	10	192	220	2.3	1.9	2.3	2
PTHS303012-150M	15	345	380	1.6	1.3	1.9	1.6

PTHS303015

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS303015-R15M	0.15	5	6	12	11	16	15
PTHS303015-R47M	0.47	9	11	9	8	10	9
PTHS303015-1R0M	1	18	22	6	5.5	7	6.5
PTHS303015-1R5M	1.5	22	26	8	7.5	6	5.5
PTHS303015-2R2M	2.2	42	50	4.5	4	5	4.5
PTHS303015-4R7M	4.7	87	104	3.5	3	4	3.5
PTHS303015-6R8M	6.8	160	180	2.5	2	3.5	3
PTHS303015-100M	10	185	215	2	1.5	2.8	2.5
PTHS303015-220M	22	580	700	1.2	1	1.6	1.2

PTHS303018

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS303018-R22M	0.22	5.5	7	10	9	17	16
PTHS303018-R47M	0.47	8	10	9	8	12	11
PTHS303018-1R0M	1	15	21	6.3	5.8	7.6	6.8
PTHS303018-1R5M	1.5	20	26	6.8	6.4	8	7
PTHS303018-4R7M	4.7	72	87	3.4	3	4.7	4.2

PTHS303020

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS303020-R15M	0.15	4	5	13	12	18	17
PTHS303020-R33M	0.33	7.5	9	10	9	17	15
PTHS303020-R50M	0.5	9	12	9	8	15	13
PTHS303020-R68M	0.68	13	16	8.5	7.8	13	11
PTHS303020-1R0M	1	14	20	6.5	6	8	7.3
PTHS303020-1R5M	1.5	19	25	6.3	5.8	7	6.5
PTHS303020-2R2M	2.2	37	45	4.7	4.3	6	5.5
PTHS303020-3R3M	3.3	52	63	4.5	4	5.9	5.4
PTHS303020-4R7M	4.7	60	73	4.2	3.8	4.8	4
PTHS303020-6R8M	6.8	107	135	3.2	3	4.5	3.8
PTHS303020-100M	10	135	160	2.5	2.2	3.8	3.3
PTHS303020-150M	15	235	260	1.8	1.5	2.6	2.2

PTHS404010

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS404010-1R0M	1.0	22	26	7	6.5	5.3	4.8

PTHS404010-4R7M	4.7	120	140	3.4	3	3.8	3.5
PTHS404010-100M	10	220	280	2.5	2	2.2	2

PTHS404012

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS404012-R47M	0.47	11.5	14	9	8.5	12	11.5
PTHS404012-R68M	0.68	15	18	8.5	7.5	10	9
PTHS404012-1R0M	1	21	25	6.3	5.5	11	10
PTHS404012-1R5M	1.5	29	34.5	6	5	8	7
PTHS404012-2R2M	2.2	45	55	5	4.5	6.5	6
PTHS404012-3R3M	3.3	67	80	4.5	4	5.5	5
PTHS404012-4R7M	4.7	90	110	3.5	3	5	4.5
PTHS404012-5R6M	5.6	116	140	3	2.5	4.5	4
PTHS404012-6R8M	6.8	132	160	2.8	2.3	3.8	3.5
PTHS404012-100M	10	200	235	2.5	2	2.8	2.5

PTHS404020

P/N	L0(μ H) @ (0A) 1MHz	Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS404020-R33M	0.33	5	6	9.5	8.5	18	17
PTHS404020-R47M	0.47	7	8.5	8.5	8	16	15
PTHS404020-1R0M	1.0	12	14.5	6.5	6	12.5	11.5
PTHS404020-1R5M	1.5	18	22	6	5.5	10.5	9.5
PTHS404020-2R2M	2.2	30	36	5.5	5	9.5	8.5
PTHS404020-3R3M	3.3	35	40	6.3	5.8	8	7
PTHS404020-4R7M	4.7	47	58	5.0	4	6.3	5.5
PTHS404020-6R8M	6.8	90	105	3.7	3.2	5.4	4.5
PTHS404020-100M	10	113	135	3.4	3	4.9	4
PTHS404020-150M	15	210	250	2.3	1.7	3.5	3
PTHS404020-220M	22	275	330	1.8	1.3	2.9	2.3



PTHS404030

P/N	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
PTHS404030-R33M	0.33	4.5	6	16	15	25	23
PTHS404030-R47M	0.47	5.5	7	15	14	23	21
PTHS404030-R56M	0.56	6	7.5	15	14	22	20
PTHS404030-R68M	0.68	8.3	10	9.5	8	17	15
PTHS404030-1R0M	1.0	10	12	10	9	15.5	14
PTHS404030-1R5M	1.5	15	18	6.5	6	12.5	11
PTHS404030-2R2M	2.2	22	25	9	8.5	10.5	9.5
PTHS404030-3R3M	3.3	30	35	5.3	4.8	8.5	7.5
PTHS404030-4R7M	4.7	41	46	4.3	4	7	6
PTHS404030-6R8M	6.8	51	62	4.2	3.8	6.3	5.1
PTHS404030-8R2M	8.2	90	102	3.9	3.5	5.2	4.8
PTHS404030-100M	10	92	110	3.7	3.3	4.9	4.5
PTHS404030-220M	22	190	220	2.5	2.2	3.4	3.0