

- 低损耗合金粉末压铸成型，产品耐电流能力强
- 低损耗，高效率，应用频率高
- 同尺寸直流电阻最小
- 磁屏蔽结构，抗电磁干扰强
- 轻量化设计，节省空间，适用于高密度 SMT
- 工作温度：-40~125℃

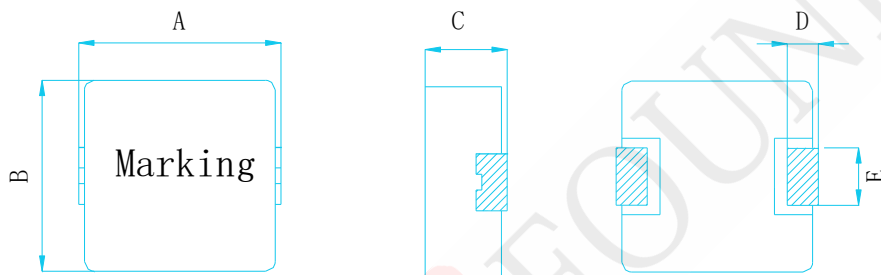
一. 产品说明

PSM XXXX X - XXX X

① ② ③ ④ ⑤

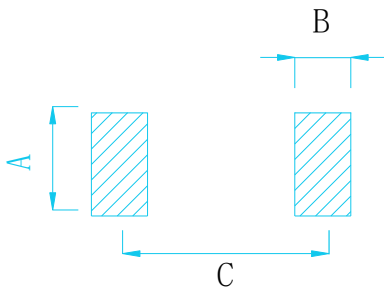
- ① : 产品别
- ② : 尺寸:XXXX产品尺寸, 例0412, 长宽4mm, 高度1.2Max
- ③ : B-普通品, C-大电流, V-车规
- ④ : XXX电感值, 例1R0, 2R2
- ⑤ : X电感值公差, 例M=±20%

二. 外形尺寸 (单位:mm)



系列	A	B	C	D	E
PSM0412B	4.75Max	4.2±0.25	1.2 Max	0.8±0.3	2.0±0.3
PSM0412C	4.75Max	4.2±0.25	1.2 Max	0.8±0.3	2.0±0.3
PSM0420C	4.75Max	4.2±0.25	2.0 Max	0.8±0.3	2.0±0.3
PSM0515B	5.75 Max	5.2±0.25	1.5 Max	1.0±0.3	2.0±0.3
PSM0518B	5.75 Max	5.2±0.25	1.8 Max	1.0±0.3	2.0±0.3
PSM0530B	5.75 Max	5.2±0.25	3.0 Max	1.0±0.3	2.0±0.3
PSM0615C	7.40 Max	6.6±0.25	1.5 Max	1.6±0.3	3.0±0.3
PSM0630B	7.40 Max	6.6±0.25	3.0 Max	1.6±0.3	3.0±0.3
PSM0630C	7.40 Max	6.6±0.25	3.0 Max	1.6±0.3	3.0±0.3
PSM0640C	7.40 Max	6.6±0.25	4.0 Max	1.6±0.3	3.0±0.3
PSM1040B	11.5 Max	10.0±0.25	4.0 Max	2.0±0.3	3.0±0.3
PSM1040C	11.5 Max	10.0±0.25	4.0 Max	2.0±0.3	3.0±0.3
PSM0530V	5.75 Max	5.2±0.25	3.0 Max	1.0±0.3	2.0±0.3
PSM0630V	7.40 Max	6.6±0.25	3.0 Max	1.6±0.3	3.0±0.3
PSM1040V	11.5 Max	10.0±0.25	4.0 Max	2.0±0.3	3.0±0.3
PSM1365V	13.8 Max	12.6±0.25	6.5 Max	2.35±0.3	5.0±0.3

三. 推荐焊盘尺寸 (单位:mm)



系列	A	B	C
04 系列	2.5	1.5	3.7
05 系列	2.5	1.9	4.1
06 系列	3.5	2.35	6.05
10 系列	4.0	3.5	9.0
13 系列	5.0	3.25	11.25

四. 电气特性

1. 所有的测试数据参照的环境温度为 25°C
2. 电感测试条件: 100KHz/1V
3. 饱和电流: 加载电流后电感值初始值降幅≤30%
4. 温升电流: 加载电流引起的产品温升温度差 $\Delta T \leq 40^\circ\text{C}$
5. 工作温度: $-40^\circ\text{C} \sim 125^\circ\text{C}$ (普通品), $-40^\circ\text{C} \sim 150^\circ\text{C}$ (车规品)

PSM0412B 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0412BR47M	0.47	20	19.6	6.7	5.7
PSM0412BR68M	0.68	20	36.0	6.5	5.0
PSM0412B1R0M	1.0	20	46.5	5.0	4.3
PSM0412B1R5M	1.5	20	75.0	4.0	3.4
PSM0412B2R2M	2.2	20	83.0	3.4	2.8
PSM0412B4R7M	4.7	20	193.0	2.2	1.8
PSM0412B6R8M	6.8	20	368.0	1.9	1.5
PSM0412B8R2M	8.2	20	480.0	1.6	1.3

PSM0412C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0412CR47M	0.47	20	18.4	9.2	8.5
PSM0412CR56M	0.56	20	21.0	7.8	6.0
PSM0412C1R0M	1.0	20	34.5	6.0	4.7
PSM0412C1R5M	1.5	20	56.0	5.0	4.5
PSM0412C2R2M	2.2	20	82.0	3.8	3.3
PSM0412C3R3M	3.3	20	124.0	3.5	2.8
PSM0412C4R7M	4.7	20	145.0	2.8	2.1
PSM0412C6R8M	6.8	20	355.0	2.3	1.5

PSM0420C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0420CR47M	0.47	20.0	6.5	14.0	13.2
PSM0420C1R0M	1.0	20.0	17.0	8.0	5.5
PSM0420C1R5M	1.5	20.0	38.5	6.0	4.0
PSM0420C4R7M	4.7	20.0	85.0	4.0	2.5

PSM0515C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0515CR12M	0.12	20	3.7	25.0	16.0
PSM0515CR22M	0.22	20	4.4	16.8	14.5
PSM0515CR47M	0.47	20	12.7	12.7	9.0
PSM0515CR68M	0.68	20	15.5	9.5	8.1
PSM0515C1R0M	1.0	20	23.0	8.5	5.8
PSM0515C1R2M	1.2	20	33.7	6.5	4.7
PSM0515C2R2M	2.2	20	52.0	6.0	4.0
PSM0515C3R3M	3.3	20	72.0	4.3	3.1
PSM0515C4R7M	4.7	20	100.0	3.7	2.7
PSM0515C100M	10.0	20	170.0	2.7	1.9

PSM0518B 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0518BR33M	0.33	20	6.8	17.1	15.0
PSM0518BR47M	0.47	20	8.5	15.5	10.0
PSM0518BR68M	0.68	20	13.8	11.2	8.0
PSM0518B1R0M	1.0	20	18.0	8.6	7.5
PSM0518B1R5M	1.5	20	28.0	7.2	5.5
PSM0518B2R2M	2.2	20	35.0	6.0	4.7
PSM0518B3R3M	3.3	20	52.0	4.8	4.5
PSM0518B4R7M	4.7	20	81.0	3.9	3.2
PSM0518B6R8M	6.8	20	125.0	3.4	2.6
PSM0518B100M	10.0	20	154.0	2.8	2.3

PSM0530B 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0530BR10M	0.10	20	2.3	33.0	25.0
PSM0530BR22M	0.22	20	3.9	17.0	15.0

PSM0530BR35M	0.35	20	6.3	13.0	12.0
PSM0530BR47M	0.47	20	8.0	12.0	10.9
PSM0530BR68M	0.68	20	9.2	10.0	9.9
PSM0530B1R0M	1.0	20	12.0	8.5	8.5
PSM0530B2R2M	2.2	20	29.0	6.5	5.5
PSM0530B3R3M	3.3	20	38.0	5.0	4.7
PSM0530B4R7M	4.7	20	60.0	3.5	4.5
PSM0530B6R8M	6.8	20	115.0	3.2	2.8

PSM0615C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0615CR12M	0.12	20	3.65	25.0	17.0
PSM0615CR15M	0.15	20	4.1	22.0	16.0
PSM0615CR33M	0.33	20	6.5	19.0	12.0
PSM0615CR47M	0.47	20	8.5	15.5	11.0
PSM0615CR82M	0.82	20	17.0	11.0	8.5
PSM0615C1R0M	1.0	20	21.0	10.0	7.6
PSM0615C1R5M	1.5	20	28.0	7.7	6.7
PSM0615C2R2M	2.2	20	42.0	6.1	5.1
PSM0615C3R3M	3.3	20	63.0	5.2	3.3
PSM0615C4R7M	4.7	20	84.0	4.5	3.0
PSM0615C6R8M	6.8	20	130.0	4.0	2.5
PSM0615C100M	10.0	20	175.0	3.0	2.0

PSM0630B 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0630B R10M	0.1	20	0.99	48.0	35.0
PSM0630B R15M	0.15	20	2.4	35.0	25.0
PSM0630B R22M	0.22	20	3.0	32.0	21.0
PSM0630B R47M	0.47	20	4.1	17.8	16.0
PSM0630B R82M	0.82	20	6.0	14.0	13.0
PSM0630B 1R0M	1.0	20	7.25	13.5	11.2
PSM0630B 1R5M	1.5	20	10.5	12.0	9.5
PSM0630B 2R2M	2.2	20	15.0	10.5	8.0
PSM0630B 3R3M	3.3	20	22.0	8.5	6.2
PSM0630B 4R7M	4.7	20	33.0	5.5	5.5
PSM0630B 6R8M	6.8	20	48.0	5.0	4.2
PSM0630B 100M	10.0	20	68.0	4.9	3.5
PSM0630B 150M	15.0	20	150.0	3.3	2.4
PSM0630B 220M	22.0	20	200.0	2.5	2.0
PSM0630B 330M	33.0	20	284.0	2.0	1.8

PSM0630C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0630CR12M	0.12	20	0.65	42.5	37.5
PSM0630CR15M	0.15	20	0.9	41.0	35.0
PSM0630CR22M	0.22	20	1.3	32.0	32.0
PSM0630CR36M	0.36	20	2.55	28.0	23.0
PSM0630CR47M	0.47	20	3.3	23.0	20.0
PSM0630CR68M	0.68	20	5.2	17.0	15.5
PSM0630CR82M	0.82	20	5.4	15.6	15.0
PSM0630C1R0M	1.0	20	6.5	15.0	14.4
PSM0630C1R5M	1.5	20	8.9	14.0	11.0
PSM0630C2R2M	2.2	20	12.8	12.0	9.0
PSM0630C3R3M	3.3	20	21.0	10.0	7.0
PSM0630C4R7M	4.7	20	26.0	7.0	6.0
PSM0630C6R8M	6.8	20	48.0	6.1	5.0
PSM0630C100M	10.0	20	66.0	5.5	3.8

PSM0640C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0640CR15M	0.15	20	0.72	46.0	36.0
PSM0640CR22M	0.22	20	0.98	28.5	34.0
PSM0640CR24M	0.24	20	1.0	28.5	32.0
PSM0640CR36M	0.36	20	1.44	23.0	25.0
PSM0640CR47M	0.47	20	1.55	19.0	21.0

PSM1040B 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM1040BR22M	0.22	20	0.93	59.0	32.0
PSM1040BR36M	0.36	20	1.18	42.0	29.0
PSM1040BR47M	0.47	20	1.5	40.0	28.0
PSM1040BR56M	0.56	20	1.8	28.0	23.0
PSM1040B1R0M	1.0	20	3.3	26.0	17.0
PSM1040B1R5M	1.5	20	4.2	18.0	15.0
PSM1040B2R2M	2.2	20	7.0	16.0	11.0
PSM1040B3R3M	3.3	20	12.0	13.5	9.0
PSM1040B4R7M	4.7	20	20.0	13.0	7.6
PSM1040B6R8M	6.8	20	24.5	9.5	6.5
PSM1040B8R2M	8.2	20	26.5	8.0	6.2

PSM1040B100M	10.0	20	30.0	7.2	5.8
PSM1040B150M	15.0	20	45.0	6.9	5.0
PSM1040B220M	22.0	20	66.0	5.4	4.0

PSM1040C 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM1040CR22M	0.22	20	0.6	66.0	45.0
PSM1040CR36M	0.36	20	0.76	41.0	38.0
PSM1040CR45M	0.45	20	1.0	38.0	32.0
PSM1040CR56M	0.56	20	1.4	35.0	28.0
PSM1040CR68M	0.68	20	1.6	31.0	25.0
PSM1040CR88M	0.88	20	2.3	28.5	24.0
PSM1040C1R0M	1.0	20	2.3	28.0	22.5

PSM0530V 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0530VR68M	0.68	20	9.8	10.0	10.0
PSM0530V1R0M	1.0	20	11.5	5.7	9.3
PSM0530V2R2M	2.2	20	23.0	4.7	6.4
PSM0530V3R3M	3.3	20	38.0	4.5	5.0
PSM0530V4R7M	4.7	20	60.0	3.9	3.9
PSM0530V6R8M	6.8	20	92.0	3.0	3.1
PSM0530V100M	10.0	20	129.5	2.0	2.3
PSM0530V150M	15.0	20	196.0	1.9	1.8

PSM0630V 系列

产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM0630VR47M	0.47	20	4.62	16.3	17.0
PSM0630V1R0M	1.0	20	7.8	12.5	13.0
PSM0630V1R5M	1.5	20	12.5	9.0	10.5
PSM0630V2R2M	2.2	20	16.5	8.5	9.0
PSM0630V3R3M	3.3	20	26.0	7.0	7.5
PSM0630V4R7M	4.7	20	33.4	6.0	6.0
PSM0630V6R8M	6.8	20	46.8	4.5	5.5
PSM0630V100M	10.0	20	70.5	3.5	4.0
PSM0630V150M	15.0	20	110.0	2.8	3.2
PSM0630V6R8M	22.0	20	174.0	2.4	2.5

PSM1040V 系列

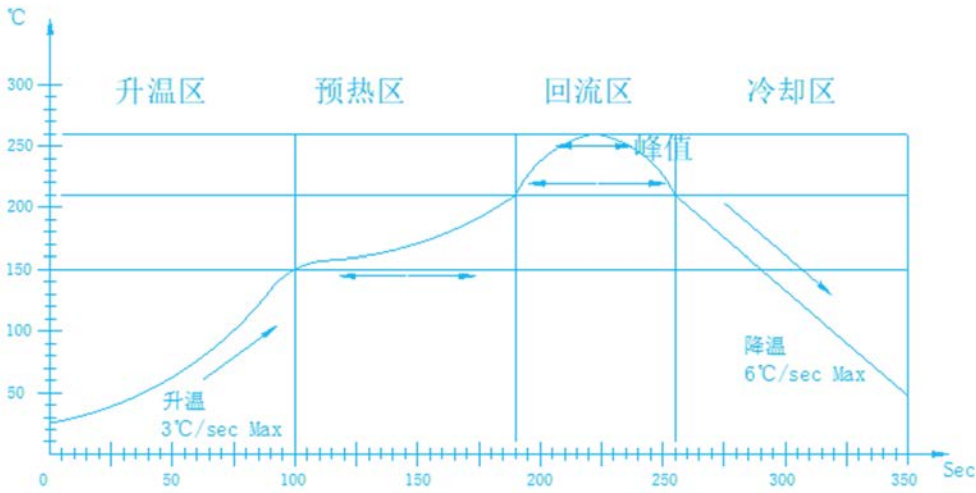
产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM1040VR47M	0.47	20	1.68	21.0	34.0
PSM1040VR78M	0.78	20	2.5	18.3	30.0
PSM1040V1R0M	1.0	20	3.1	18.0	23.0
PSM1040V3R3M	3.3	20	11.8	12.0	11.0
PSM1040V4R7M	4.7	20	15.0	11.0	9.8
PSM1040V6R8M	6.8	20	21.5	8.5	9.1
PSM1040V8R2M	8.2	20	29.0	7.1	7.7
PSM1040V100M	10.0	20	33.0	6.0	7.5
PSM1040V150M	15.0	20	45.0	5.4	6.0
PSM1040V220M	22.0	20	68.0	4.6	5.0
PSM1040V330M	33.0	20	102.0	3.6	4.0
PSM1040V470M	47.0	20	188.0	3.2	3.0

PSM1365V 系列

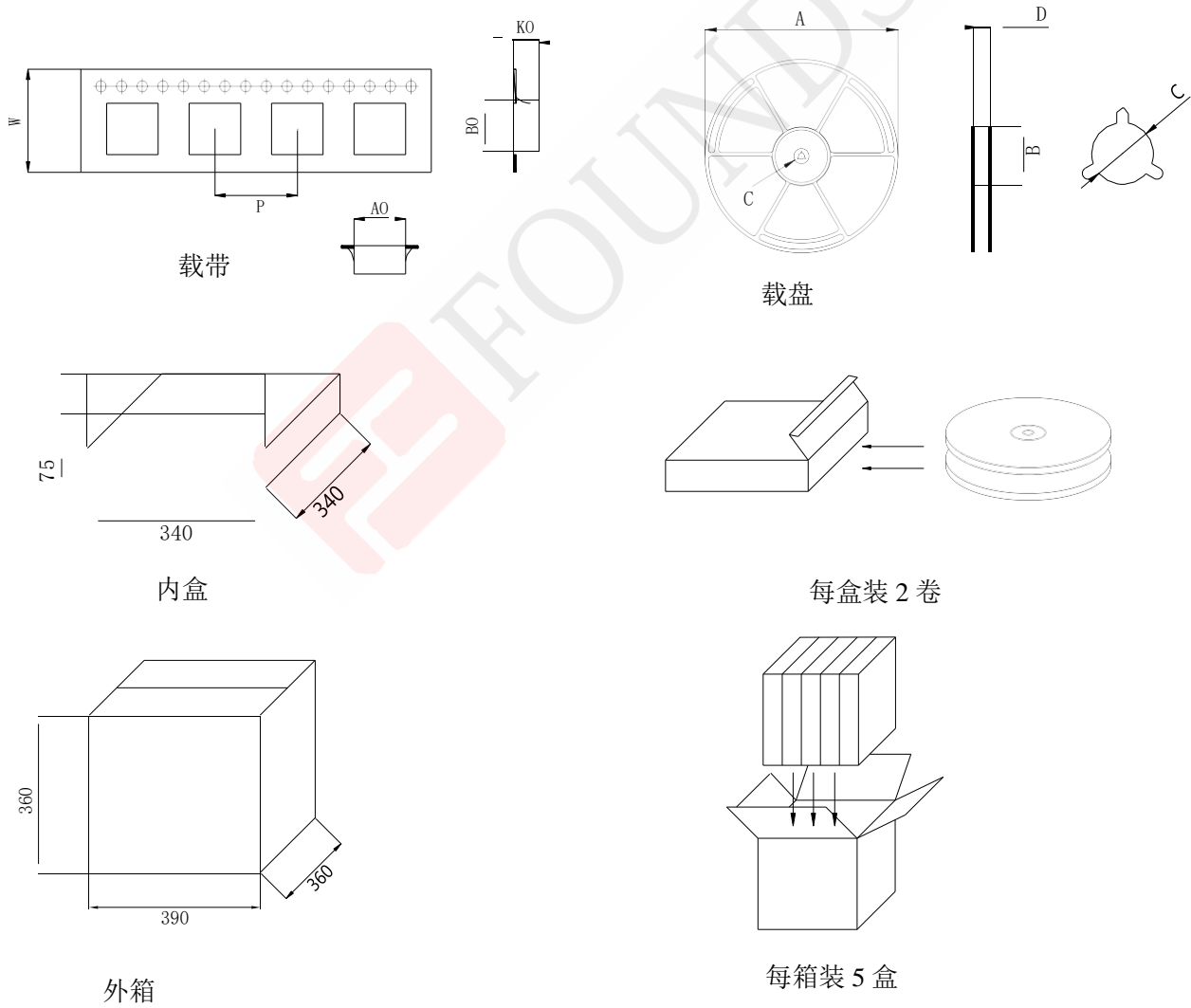
产品料号	电感值	公差	直流电阻 DCR	饱和电流 Isat	温升电流 Irms
	$\mu\text{H}@0\text{A}$	$\pm\%$	(m Ω) Max	(A) Max	(A) Max.
PSM1365V1R0M	1.0	20	2.1	20.0	36.0
PSM1365V1R5M	1.5	20	3.0	18.0	26.0
PSM1365V2R2M	2.2	20	4.5	17.5	21.0
PSM1365V3R3M	3.3	20	6.0	17.0	18.3
PSM1365V4R7M	4.7	20	8.7	13.5	15.0
PSM1365V5R6M	6.8	20	10.0	12.0	14.0
PSM1365V6R8M	8.2	20	11.3	10.5	13.5
PSM1365V100M	10.0	20	17.2	9.2	11.0
PSM1365V150M	15.0	20	28.2	7.2	8.5
PSM1365V220M	22.0	20	40.0	6.3	7.0
PSM1365V330M	33.0	20	69.0	4.3	5.5
PSM1365V470M	47.0	20	104.0	3.8	4.2

五. 推荐焊接条件

无铅回流焊标准温度范围分析 (参照 J-STD-020C)					
项目	升温曲	预热曲	回流曲	峰值温度	冷却区
温度范围	室温 \sim 150 $^{\circ}\text{C}$	150 $^{\circ}\text{C}$ \sim 200 $^{\circ}\text{C}$	217 $^{\circ}\text{C}$	260 \pm 5 $^{\circ}\text{C}$	峰值温度 \sim 150 $^{\circ}\text{C}$
标准时间	-	60 \sim 80 秒	60 \sim 150 秒	20 \sim 40 秒	-
实际时间	-	70 \sim 150 秒	90 \sim 120 秒	20 \sim 35 秒	-



六. 包装规范



系列	载带尺寸 (mm)					载盘尺寸 (mm)				每盘包装 数量 pcs
	A0	B0	K0	W	P	A	B	C	D	
PSM0412B	4.5	5.1	1.5	12	8	330	100	12	12.5	2000
PSM0412C	4.5	5.1	1.5	12	8	330	100	12	12.5	2000
PSM0420C	4.5	5.1	2.4	12	8	330	100	12	12.5	2000
PSM0515C	5.9	6.2	1.8	16	12	330	100	12	16.5	2000
PSM0518B	5.9	6.2	2.2	16	12	330	100	12	16.5	2000
PSM0530B	5.9	6.2	3.4	16	12	330	100	12	16.5	2000
PSM0615C	6.9	7.6	1.8	16	12	330	100	12	16.5	1000
PSM0630B	6.9	7.6	3.4	16	12	330	100	12	16.5	1000
PSM0630C	6.9	7.6	3.4	16	12	330	100	12	16.5	1000
PSM1040B	10.6	11.8	4.3	24	16	330	100	12	24.5	500
PSM1040C	10.6	11.8	4.3	24	16	330	100	12	24.5	500
PSM0530V	5.9	6.2	3.4	16	12	330	100	12	16.5	2000
PSM0630V	6.9	7.6	3.4	16	12	330	100	12	16.5	1000
PSM1040V	10.6	11.8	4.3	24	16	330	100	12	24.5	500
PSM1365V	13.2	13.8	6.8	24	16	330	100	12	24.5	500