



● FEATURES 特性

- 1.磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.小体积,大电流,范围可到60A,在高频和高温环境下保持优良的温升电流及饱和电流特性.
- 3.低损耗合金粉末压铸,低电阻.结构牢固,产品精准度高.
- 4.工作频率范围广,可达5MHz以上.
- 5.RoHS , 无卤环保产品.



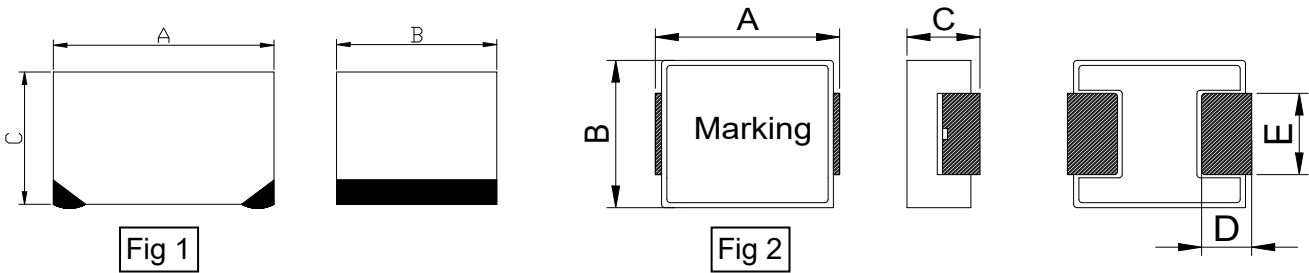
● APPLICATIONS 用途

- 1.PAD/Notebook/Desktop/Server applications PAD,笔记本电脑,台式机,服务器,
- 2.DC/DC converter DC/DC转换器

● PART NUMBERING SYSTEM 品名系统

HCM	0630	100	M
SERIES NAME品名	SERIES NAME品名	INDL JCTANCE电感值	TOLERANCE CODE公差
			J:+5% , K:+10%L:+15%
			M:+20%, P:+25%, N:+30%

● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HCM252012	2.5±0.2	2.0±0.2	1 . 2 Max	/	/	1
HCM0320	3.5±0.2	3.2±0.2	2.0 Max	0.7±0.2	1.2±0.2	2
HCM0420	4.6±0.25	4.1±0.35	2.0 Max	0.76±0.3	1.5±0.3	2
HCM0520	5.7±0.25	5.1±0.35	2.0 Max	1.3±0.3	2.3±0.3	2
HCM0530	5.7±0.25	5.1±0.35	3.0 Max	1.3±0.3	.3±0.3	2
HCM0630	7.4 Max	6.6±0.2	3.0 Max	1.6±0.3	3.0±0.2	2
HCM0650	7.5 Max	6.6±0.2	5.0 Max	1.6±0.3	3.0±0.2	2
HCM1030	11.6 Max.	10.1±0.3	3.0 Max	2.5±0.5	3.0±0.5	2
HCM1040	11.6 Max.	10.1±0.3	4.0 Max	2.5±0.5	3.0±0.5	2
HCM1250	13.8 Max.	12.6±0.3	5.0 Max	2.7±0.7	3.5±0.5	2
HCM1265	13.8 Max.	12.6±0.3	6.5 Max	2.7±0.7	3.5±0.5	2



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25°C		Heat Rating Current DC	Saturation Current
		Typical	Maximum	Typical	Typical
HCM252012-R24M	0.24 $\pm$ 20%	16.0	21.0	5.00	7.50
HCM252012-R33/M	0.33 $\pm$ 20%	20.0	24.0	4.40	6.60
HCM252012-R47/M	0.47 $\pm$ 20%	24.0	29.0	4.10	5.50
HCM252012-R68M	0.68 $\pm$ 20%	27.0	36.0	3.50	5.10
HCM252012-1R0M	1.0 $\pm$ 20%	38.0	46.0	3.10	4.10
HCM252012-1R5M	1.5 $\pm$ 20%	56.0	67.0	2.60	3.00
HCM252012-2R2M	2.2 $\pm$ 20%	76.0	91.0	2.20	2.80

● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0320-R47M	0.47 $\pm$ 20%	18.0	23.0	7.00	9.00
HCM0320-R68M	0.68 $\pm$ 20%	23.0	29.0	5.50	7.00
HCM0320-1R0M	1.0 $\pm$ 20%	31.0	38.0	4.00	5.00
HCM0320-2R2M	2.2 $\pm$ 20%	66.0	75.0	3.50	3.70
HCM0320-3R3M	3.3 $\pm$ 20%	132.0	145.0	3.00	3.50
HCM0320-4R7M	4.7 $\pm$ 20%	185.0	200.0	2.60	3.00
HCM0320-6R8M	6.8 $\pm$ 20%	270.0	300.0	1.90	2.20
HCM0320-100M	10.0 $\pm$ 20%	380.0	422.0	1.40	1.60

Remark: ● All test data is reference to 25°C ambient.

● Test Condition: 1MHz, 1Vrms

● Idc: DC current (A) that will cause an approximate Δ T of 40°C

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

● Operat between temperature range -40°C to +125°C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0420-R10M	0.10 $\pm$ 20%	3.50	4.00	12.00	25.00
HCM0420-R22M	0.22 $\pm$ 20%	6.00	6.60	9.00	12.50
HCM0420-R47M	0.47 $\pm$ 20%	12.50	14.00	7.00	10.00
HCM0420-R56M	0.56 $\pm$ 20%	14.00	16.00	6.50	10.00
HCM0420-R68M	0.68 $\pm$ 20%	16.00	18.00	5.20	8.00
HCM0420-1R0M	1.00 $\pm$ 20%	24.00	27.00	4.50	7.00
HCM0420-1R5M	1.50 $\pm$ 20%	38.00	46.00	4.00	6.00
HCM0420-2R2M	2.20 $\pm$ 20%	52.00	58.00	3.00	5.00
HCM0420-3R3M	3.30 $\pm$ 20%	74.00	87.00	2.50	4.00
HCM0420-4R7M	4.70 $\pm$ 20%	100.00	126.00	2.20	3.00
HCM0420-6R8M	6.80 $\pm$ 20%	162.00	178.00	2.00	2.50
HCM0420-8R2M	8.20 $\pm$ 20%	188.00	216.00	1.80	2.20
HCM0420-100M	10.0 $\pm$ 20%	256.00	294.00	1.60	2.00
HCM0420-150M	15.0 $\pm$ 20%	325.00	362.00	1.30	1.80

● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0520-1R0M	1.0 $\pm$ 20%	16.00	20.00	6.00	9.00
HCM0520-1R5M	1.5 $\pm$ 20%	26.00	35.00	5.50	6.50
HCM0520-2R2M	2.2 $\pm$ 20%	32.00	45.00	4.00	6.00
HCM0520-3R3M	3.3 $\pm$ 20%	72.00	80.00	3.50	5.00
HCM0520-4R7M	4.7 $\pm$ 20%	86.00	95.00	3.00	4.00
HCM0520-6R8M	6.8 $\pm$ 20%	116.00	130.00	2.80	3.50
HCM0520-100M	10 $\pm$ 20%	152.00	180.00	2.30	2.80

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Rated DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0530-R47M	0.47 $\pm$ 20%	6.50	7.50	10.00	14.00
HCM0530-R68M	0.68 $\pm$ 20%	11.00	12.00	8.00	14.00
HCM0530-1R0M	1.00 $\pm$ 20%	13.00	15.00	7.00	11.00
HCM0530-1R2M	1.20 $\pm$ 20%	14.00	15.00	6.50	11.00
HCM0530-1R5M	1.50 $\pm$ 20%	17.00	25.00	6.00	10.00
HCM0530-2R2M	2.20 $\pm$ 20%	27.00	35.00	5.50	8.00
HCM0530-3R3M	3.30 $\pm$ 20%	35.00	46.00	4.50	6.50
HCM0530-4R7M	4.70 $\pm$ 20%	50.00	60.00	4.00	6.00
HCM0530-6R8M	6.80 $\pm$ 20%	69.00	86.00	3.50	5.00
HCM0530-8R2M	8.20 $\pm$ 20%	80.00	105.00	3.25	4.00
HCM0530-100M	10.0 $\pm$ 20%	115.00	126.00	2.50	3.50
HCM0530-150M	15.0 $\pm$ 20%	150.00	165.00	1.80	2.20

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0630-R47M	0.47 $\pm$ 20%	3.50	4.10	18.00	22.00
HCM0630-R56M	0.56 $\pm$ 20%	4.25	4.50	16.50	20.00
HCM0630-R68M	0.68 $\pm$ 20%	5.00	5.30	16.00	19.00
HCM0630-R82M	0.82 $\pm$ 20%	5.50	6.00	14.00	18.00
HCM0630-1R0M	1.00 $\pm$ 20%	7.00	7.50	12.00	16.00
HCM0630-1R2M	1.20 $\pm$ 20%	8.00	10.00	10.00	14.00
HCM0630-1R5M	1.50 $\pm$ 20%	10.60	12.10	9.00	12.50
HCM0630-1R8M	1.80 $\pm$ 20%	14.00	16.00	7.50	11.00
HCM0630-2R2M	2.20 $\pm$ 20%	15.50	17.50	8.00	10.00
HCM0630-3R3M	3.30 $\pm$ 20%	23.00	26.00	6.00	9.50
HCM0630-4R7M	4.70 $\pm$ 20%	34.50	38.00	5.00	6.50
HCM0630-6R8M	6.80 $\pm$ 20%	47.00	50.00	4.50	6.00
HCM0630-8R2M	8.20 $\pm$ 20%	58.50	65.00	4.00	6.00
HCM0630-100M	10.0 $\pm$ 20%	64.00	68.00	4.00	5.00
HCM0630-150M	15.0 $\pm$ 20%	106.00	115.00	2.60	3.80
HCM0630-220M	22.0 $\pm$ 20%	165.00	189.00	2.30	3.10
HCM0630-330M	33.0 $\pm$ 20%	250.00	270.00	2.00	2.50
HCM0630-470M	47.0 $\pm$ 20%	320.00	350.00	1.70	2.00

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM0650-1R0M	1.0 $\pm$ 20%	5.60	6.50	12.00	13.00
HCM0650-1R5M	1.5 $\pm$ 20%	7.10	8.50	10.00	12.00
HCM0650-2R2M	2.2 $\pm$ 20%	11.60	13.50	9.00	10.00
HCM0650-3R3M	3.3 $\pm$ 20%	19.60	22.00	8.50	9.00
HCM0650-4R7/M	4.7 $\pm$ 20%	27.00	30.00	6.00	8.00
HCM0650-6R8M	6.8 $\pm$ 20%	38.00	44.00	5.00	7.00
HCM0650-100M	10 $\pm$ 20%	46.00	55.00	4.50	6.00
HCM0650-150M	15 $\pm$ 20%	72.00	85.00	3.50	4.00
HCM0650-220M	22 $\pm$ 20%	115.00	130.00	2.80	3.50
HCM0650-330M	33.0 $\pm$ 20%	158.00	180.00	2.40	3.00
HCM0650-470M	47.0 $\pm$ 20%	260.00	290.00	2.00	2.50
HCM0650-680M	68.0 $\pm$ 20%	315.00	350.00	1.80	2.00
HCM0650-101M	100.0 $\pm$ 20%	570.00	610.00	1.00	1.50

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

● Test Condition: 100kHz, 1Vrms

● Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C

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

● Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM1030-1R0M	1.00 $\pm$ 20%	5.50	6.00	15.00	21.00
HCM1030-1R5M	1.50 $\pm$ 20%	6.50	7.50	12.00	18.00
HCM1030-2R2M	2.20 $\pm$ 20%	8.00	9.00	11.00	14.00
HCM1030-3R3M	3.30 $\pm$ 20%	14.50	16.00	9.00	12.00
HCM1030-4R7M	4.70 $\pm$ 20%	20.50	25.00	7.00	10.00
HCM1030-5R6M	5.60 $\pm$ 20%	27.00	30.00	6.00	10.00
HCM1030-6R8M	6.80 $\pm$ 20%	30.00	35.00	5.50	7.50
HCM1030-8R2M	8.20 $\pm$ 20%	35.00	45.00	5.00	7.00
HCM1030-100M	10.0 $\pm$ 20%	50.00	55.00	4.50	6.50
HCM1030-150M	15.0 $\pm$ 20%	59.00	65.00	4.00	5.00
HCM1030-220M	22.0 $\pm$ 20%	90.00	99.00	3.00	4.00

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25°C		Rated DC Amps. Idc (A)	Saturation DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM1040-R47M	0.47 $\pm$ 20%	1.53	1.68	28.00	38.00
HCM1040-R56M	0.56 $\pm$ 20%	1.60	1.80	27.00	32.00
HCM1040-R68M	0.68 $\pm$ 20%	2.10	2.40	23.00	30.00
HCM1040-1R0M	1.00 $\pm$ 20%	3.00	3.30	20.00	26.00
HCM1040-1R5M	1.50 $\pm$ 20%	3.80	4.20	16.00	22.00
HCM1040-2R2M	2.20 $\pm$ 20%	6.00	7.00	14.00	16.00
HCM1040-3R3M	3.30 $\pm$ 20%	10.80	11.80	11.00	13.00
HCM1040-4R7M	4.70 $\pm$ 20%	14.00	16.50	9.00	12.00
HCM1040-6R8M	6.80 $\pm$ 20%	22.50	25.00	8.00	10.00
HCM1040-8R2M	8.20 $\pm$ 20%	25.00	27.00	7.50	9.00
HCM1040-100M	10.0 $\pm$ 20%	27.00	30.00	6.50	7.00
HCM1040-150M	15.0 $\pm$ 20%	40.00	45.00	6.25	6.00
HCM1040-220M	22.0 $\pm$ 20%	60.00	66.00	5.00	5.50
HCM1040-330M	33.0 $\pm$ 20%	85.00	92.00	4.00	4.50
HCM1040-470M	47.0 $\pm$ 20%	129.00	150.00	3.00	4.00
HCM1040-101M	100.0 $\pm$ 20%	237.00	290.00	1.50	3.00

Remark: ● All test data is reference to 25°C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40°C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40°C to +125°C



● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM1250-R47M	0.47 $\pm$ 20%	1.00	1.30	37.00	46.00
HCM1250-1R0M	1.0 $\pm$ 20%	1.90	2.50	29.00	37.00
HCM1250-2R2M	2.2 $\pm$ 20%	4.00	5.00	15.00	25.00
HCM1250-3R3M	3.3 $\pm$ 20%	7.50	9.00	12.00	23.00
HCM1250-4R7M	4.7 $\pm$ 20%	9.00	11.50	11.00	16.00
HCM1250-5R6M	5.6 $\pm$ 20%	13.00	15.00	10.50	15.00
HCM1250-6R8M	6.8 $\pm$ 20%	18.00	22.00	9.00	14.00
HCM1250-8R2M	8.2 $\pm$ 20%	22.00	25.00	8.50	13.50
HCM1250-100M	10.0 $\pm$ 20%	24.00	29.00	8.00	13.00

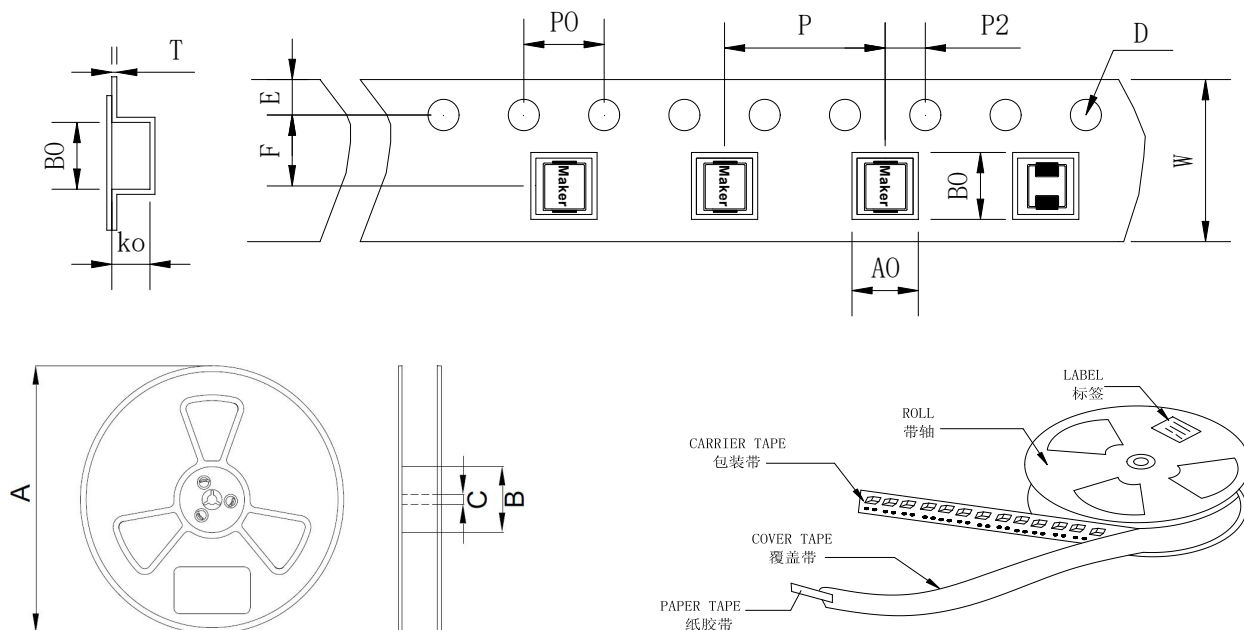
● SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μ H)	Rdc (m Ω) @25 $^{\circ}$ C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HCM1265-2R2M	2.20 $\pm$ 20%	4.20	6.00	18.00	26.00
HCM1265-3R3M	3.30 $\pm$ 20%	7.80	9.00	13.00	23.00
HCM1265-4R7M	4.70 $\pm$ 20%	8.50	11.00	12.00	18.00
HCM1265-6R8M	6.80 $\pm$ 20%	10.00	13.80	11.00	15.00
HCM1265-100M	10.0 $\pm$ 20%	18.00	20.70	10.00	12.50
HCM1265-120M	12.0 $\pm$ 20%	20.00	23.00	7.00	10.00
HCM1265-150M	15.0 $\pm$ 20%	25.00	29.00	6.00	9.00
HCM1265-180M	18.0 $\pm$ 20%	30.00	35.00	5.00	8.00
HCM1265-220M	22.0 $\pm$ 20%	34.00	39.50	5.00	7.50
HCM1265-270M	27.0 $\pm$ 20%	49.00	56.00	4.00	6.50
HCM1265-330M	33.0 $\pm$ 20%	65.00	75.00	4.00	6.00
HCM1265-470M	47.0 $\pm$ 20%	80.00	90.00	3.50	5.50
HCM1265-680M	68.0 $\pm$ 20%	115.00	130.00	3.25	4.50
HCM1265-820M	82.0 $\pm$ 20%	120.00	140.00	3.00	4.00
HCM1265-101M	100.0 $\pm$ 20%	180.00	200.00	2.50	3.50
HCM1265-121M	120.0 $\pm$ 20%	210.00	235.00	2.30	3.20
HCM1265-151/M	150.0 $\pm$ 20%	300.00	350.00	2.00	2.70

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 100kHz, 1Vrms
- Idc: DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C

● PACKAGING SPECIFICATION :



Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantit (Pcs/Reel)
	W	A0	B0	K0	DO	P	A	B	C	
HCM252012	8.0	2.3	2.8	1.3	1.5	4.0	178	58	13	3000
HCM0320	12.0	3.6	3.9	2.2	1.5	8.0	330	100	13	3000
HCM0420	12.0	4.4	5.2	2.2	1.5	8.0	330	100	13	500/2000
HCM0520	12.0	5.6	6.0	2.2	1.5	12.0	330	100	13	2000
HCM0530	12.0	5.6	6.0	3.3	1.5	12.0	330	100	13	1500/2000
HCM0630	16.0	7.2	8.0	3.3	1.5	12.0	330	100	13	1000
HCM0650	16.0	7.2	8.0	5.5	1.5	12.0	330	100	13	1000
HCM1030	24.0	10.7	11.4	3.3	1.5	16.0	330	100	13	1000
HCM1040	24.0	10.7	11.4	4.3	1.5	16.0	330	100	13	1000
HCM1250	24.0	13.2	13.4	5.5	1.5	20.0	330	100	13	500
HCM1265	24.0	13.2	13.4	6.8	1.5	20.0	330	100	13	500