

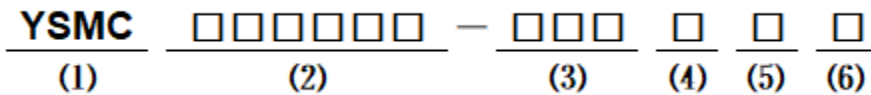
**■ Features**

- Molding Inductor, Closed magnetic circuit design reduces leakage flux.
- Low loss realized with low Rdc.
- Large Current and low loss.
- Customize For Different Need.
- Operating temperature: -55°C ~ +125°C (Including self-temperature rise) .

**■ Applications**

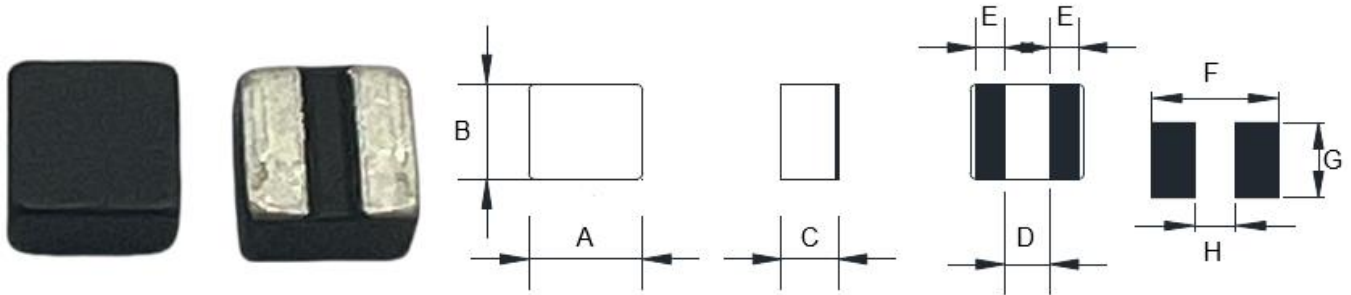
- General Electronic.
- Video Device, TV, TFT.
- Power Module for PC.
- NB/Lap Top Computer, VR, AR.
- Server, VGA Card/Module.

**■ Product Identification**



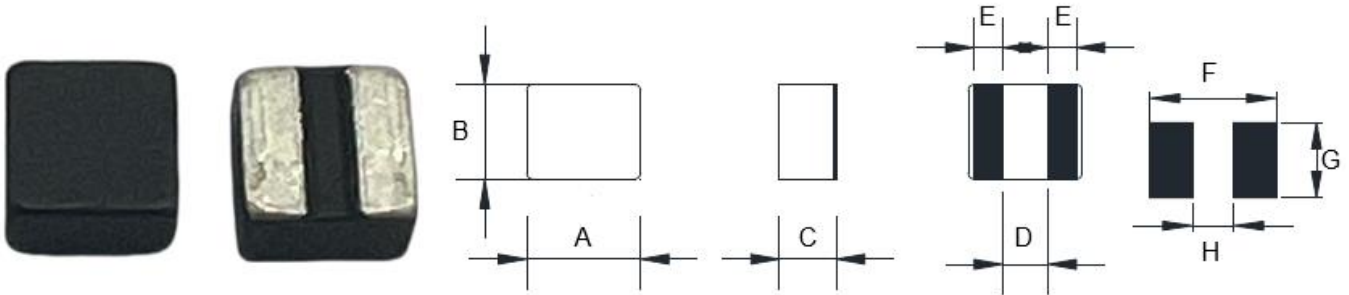
- (1) : Type
- (2) : Dimensions
- (3) : Inductance value
- (4) : Inductance Tolerance: N=±30%,M=±20%, K=±10%
- (5) : Coating color: B=Black,G=Gray
- (6) : Identification code: If none, default.

**■ Shapes and Dimensions (Unit: mm)**



TYPE	A	B	C Max.	D	E	F Ref.	G Ref.	H Ref.
YSMC100765H	1.00±0.10	0.70±0.10	0.65	0.40±0.20	0.30±0.20	1.10	0.80	0.30
YSMC121065H	1.20±0.20	1.00±0.20	0.65	0.40±0.20	0.40±0.20	1.30	1.10	0.30
YSMC160806H	1.60±0.20	0.80±0.20	0.60	0.60±0.20	0.5±0.2	1.70	0.90	0.50
YSMC160865H	1.60±0.20	0.80±0.20	0.65	0.60±0.20	0.5±0.2	1.70	0.90	0.50
YSMC160808H	1.60±0.20	0.80±0.20	0.80	0.60±0.20	0.5±0.2	1.70	0.90	0.50
YSMC141265H	1.40±0.20	1.20±0.20	0.65	0.50±0.20	0.45±0.2	1.50	1.30	0.40
YSMC141207H	1.40±0.20	1.20±0.20	0.70	0.50±0.20	0.45±0.2	1.50	1.30	0.40
YSMC141208H	1.40±0.20	1.20±0.20	0.80	0.50±0.20	0.45±0.2	1.50	1.30	0.40
YSMC201206H	2.00±0.20	1.20±0.20	0.60	0.60±0.20	0.70±0.2	2.10	1.30	0.50
YSMC201265H	2.00±0.20	1.20±0.20	0.65	0.60±0.20	0.70±0.2	2.10	1.30	0.50
YSMC201208H	2.00±0.20	1.20±0.20	0.80	0.60±0.20	0.70±0.2	2.10	1.30	0.50
YSMC201210H	2.00±0.20	1.20±0.20	1.00	0.60±0.20	0.70±0.2	2.10	1.30	0.50
YSMC201212H	2.00±0.20	1.20±0.20	1.20	0.60±0.20	0.70±0.2	2.10	1.30	0.50
YSMC201655H	2.00±0.20	1.60±0.20	0.55	0.60±0.20	0.70±0.2	2.10	1.70	0.50
YSMC201665H	2.00±0.20	1.60±0.20	0.65	0.60±0.20	0.70±0.2	2.10	1.70	0.50
YSMC201607H	2.00±0.20	1.60±0.20	0.70	0.60±0.20	0.70±0.2	2.10	1.70	0.50
YSMC201608H	2.00±0.20	1.60±0.20	0.80	0.60±0.20	0.70±0.2	2.10	1.70	0.50
YSMC201610H	2.00±0.20	1.60±0.20	1.00	0.60±0.20	0.70±0.2	2.10	1.70	0.50
YSMC201612H	2.00±0.20	1.60±0.20	1.20	0.60±0.20	0.70±0.2	2.10	1.70	0.50

**■ Shapes and Dimensions (Unit: mm)**



TYPE	A	B	C Max.	D	E	F Ref.	G Ref.	H Ref.
YSMC252055H	2.50±0.20	2.00±0.20	0.55	0.80±0.20	0.85±0.2	2.60	2.10	0.70
YSMC252075H	2.50±0.20	2.00±0.20	0.75	0.8±0.2	0.85±0.2	2.60	2.10	0.70
YSMC252008H	2.50±0.20	2.00±0.20	0.80	0.8±0.2	0.85±0.2	2.60	2.10	0.70
YSMC252010H	2.50±0.20	2.00±0.20	1.00	0.8±0.2	0.85±0.2	2.60	2.10	0.70
YSMC252012H	2.50±0.20	2.00±0.20	1.20	0.8±0.2	0.85±0.2	2.60	2.10	0.70
YSMC322510H	3.20±0.20	2.50±0.20	1.00	1.2±0.2	1.00±0.2	3.20	2.50	1.10
YSMC322512H	3.20±0.20	2.50±0.20	1.20	1.2±0.2	1.00±0.2	3.20	2.50	1.10
YSMC322520H	3.20±0.20	2.50±0.20	2.00	1.2±0.2	1.00±0.2	3.20	2.50	1.10
YSMC0310H	3.00±0.10	3.00±0.10	1.00	1.1±0.2	0.95±0.2	3.00	3.00	1.00
YSMC0312H	3.00±0.10	3.00±0.10	1.20	1.1±0.2	0.95±0.2	3.00	3.00	1.00
YSMC0315H	3.00±0.10	3.00±0.10	1.50	1.1±0.2	0.95±0.2	3.00	3.00	1.00
YSMC0318H	3.00±0.10	3.00±0.10	1.80	1.1±0.2	0.95±0.2	3.00	3.00	1.00
YSMC0320H	3.00±0.10	3.00±0.10	2.00	1.1±0.2	0.95±0.2	3.00	3.00	1.00
YSMC0410H	4.10±0.10	4.10±0.10	1.00	1.4±0.2	1.35±0.2	4.10	4.10	1.30
YSMC0412H	4.10±0.20	4.10±0.20	1.20	1.4±0.2	1.35±0.2	4.10	4.10	1.30
YSMC0420H	4.10±0.20	4.10±0.20	2.00	1.4±0.2	1.35±0.2	4.10	4.10	1.30
YSMC0430H	4.10±0.20	4.10±0.20	3.00	1.4±0.2	1.35±0.2	4.10	4.10	1.30

## ■ YSMC100765H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC100765H-1R5MB	1.5±20%	400	500	0.40	0.30	1.10	0.90
YSMC100765H-2R6MG	2.6±20%	750	900	0.55	0.40	1.00	0.80

## ■ YSMC121065H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC121065H-2R2MB	2.2±20%	280	340	1.0	0.9	1.3	1.2

## ■ YSMC160806H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC160806H-R10MG	0.10±20%	16.5	20.0	6.5	6.0	6.5	6.0

## ■ YSMC160865H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC160865H-R22MG	0.22±20%	35	43	4.0	3.5	5.0	4.5
YSMC160865H-R47MG	0.47±20%	66	82	2.3	2.0	3.3	3.0
YSMC160865H-R47MGD	0.47±20%	65	78	3.0	2.5	3.5	3.2
YSMC160865H-1R0MG	1.0±20%	180	200	1.8	1.5	2.4	2.0
YSMC160865H-1R0MGD	1.0±20%	140	160	2.2	1.8	2.2	2.0
YSMC160865H-2R2MB	2.2±20%	390	430	1.3	1.1	1.6	1.3

## ■ YSMC160808H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC160808H-R22MB	0.22±20%	33	40	3.4	3.0	5.5	5.0
YSMC160808H-R24MB	0.24±20%	34	41	3.3	2.9	5.3	4.8
YSMC160808H-R24MBB	0.24±20%	20	24	5.5	5.0	5.3	4.8
YSMC160808H-R33MB	0.33±20%	30	35	4.7	4.3	4.7	4.4
YSMC160808H-R47MB	0.47±20%	80	100	2.6	2.3	4.1	3.7
YSMC160808H-R47MBD	0.47±20%	38	45	3.8	3.4	4.0	3.5
YSMC160808H-R56MB	0.56±20%	85	110	2.2	1.9	4.0	3.5
YSMC160808H-R56MBD	0.56±20%	51	63	2.5	2.2	3.0	2.7
YSMC160808H-R68MB	0.68±20%	110	130	2.1	1.9	3.3	3.0
YSMC160808H-1R0MB	1.0±20%	180	200	2.1	1.8	3.0	2.6
YSMC160808H-1R0MGB	1.0±20%	105	115	2.2	1.8	2.5	2.2
YSMC160808H-1R5MB	1.5±20%	240	285	1.7	1.4	2.4	2.0
YSMC160808H-2R2MG	2.2±20%	220	260	1.4	1.2	1.5	1.3
YSMC160808H-3R3MB	3.3±20%	500	600	1.0	0.9	1.4	1.2
YSMC160808H-4R7MB	4.7±20%	585	700	1.0	0.8	1.2	1.0
YSMC160808H-100MB	10±20%	1450	1600	0.5	0.45	0.8	0.7

## ■ YSMC141265H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC141265H-R24MB	0.24±20%	23	27	6.5	6.0	5.5	5.0
YSMC141265H-R33MB	0.33±20%	26	32	4.4	4.2	4.4	4.0
YSMC141265H-R47MB	0.47±20%	37	45	3.0	2.7	3.4	3.0
YSMC141265H-R47MGB	0.47±20%	35	38	3.5	3.2	4.0	3.6

## ■ YSMC141207H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC141207H-R24MB	0.24 $\pm$ 20%	22	28	4.0	3.6	4.6	4.3
YSMC141207H-R47MB	0.47 $\pm$ 20%	34	38	3.8	3.3	3.8	3.5

## ■ YSMC141208H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC141208H-R24MB	0.24 $\pm$ 20%	22	27	4.1	3.7	6.0	5.7
YSMC141208H-R24MBD	0.24 $\pm$ 20%	21	24	6.6	6.0	7.2	6.5
YSMC141208H-R33MB	0.33 $\pm$ 20%	23	28	4.0	3.5	5.3	5.0
YSMC141208H-R47MB	0.47 $\pm$ 20%	29	35	3.8	3.3	4.6	4.2
YSMC141208H-1R0MB	1.0 $\pm$ 20%	65	77	3.0	2.5	3.0	2.5
YSMC141208H-2R2MB	2.2 $\pm$ 20%	200	225	2.0	1.8	1.9	1.7

## ■ YSMC201206H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201206H-R11MG	0.11 $\pm$ 20%	12.5	15.0	7.5	7.0	5.2	4.8

## ■ YSMC201265H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201265H-1R0MB	1.0 $\pm$ 20%	78	86	2.6	2.3	2.8	2.5
YSMC201265H-2R2MB	2.2 $\pm$ 20%	215	230	1.7	1.4	1.8	1.5
YSMC201265H-2R2MBD	2.2 $\pm$ 20%	175	210	1.4	1.3	1.4	1.3

## ■ YSMC201208H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201208H-R11MB	0.11±20%	10	12	7.0	6.5	9.5	9.0
YSMC201208H-R15MB	0.15±20%	11	13	6.8	6.3	7.5	7.0
YSMC201208H-R24MB	0.24±20%	18	23	6.5	5.9	6.5	6.0
YSMC201208H-R24MGB	0.24±20%	17	20	6.5	5.9	7.0	6.6
YSMC201208H-R33MB	0.33±20%	33	45	4.3	4.0	5.2	4.8
YSMC201208H-R47MB	0.47±20%	34	50	3.5	3.3	5.0	4.6
YSMC201208H-R47MBD	0.47±20%	24	28	4.7	4.5	5.2	4.8
YSMC201208H-R68MB	0.68±20%	50	60	3.7	3.3	4.2	3.7
YSMC201208H-1R0MB	1.0±20%	55	70	3.3	2.9	4.0	3.5
YSMC201208H-1R0MBD	1.0±20%	48	55	3.2	2.8	3.2	2.8
YSMC201208H-1R5MB	1.5±20%	118	135	2.2	1.9	3.0	2.5
YSMC201208H-2R2MB	2.2±20%	160	185	2.2	1.8	2.6	2.3
YSMC201208H-2R2MBB	2.2±20%	130	156	1.8	1.6	2.2	2.0
YSMC201208H-3R3MB	3.3±20%	253	300	1.8	1.5	1.9	1.6
YSMC201208H-4R7MB	4.7±20%	285	325	1.7	1.5	1.6	1.4

## ■ YSMC201210H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201210H-R10MB	0.10±20%	8.0	13.0	7.5	7.0	8.5	8.0
YSMC201210H-R11MB	0.11±20%	7.0	8.5	10.0	9.5	14.1	12.0
YSMC201210H-R22MB	0.22±20%	16	22	7.1	6.5	7.3	6.8
YSMC201210H-R24MB	0.24±20%	17	23	7.0	6.4	7.2	6.7
YSMC201210H-R24MGB	0.24±20%	11.5	14	9.0	8.0	7.3	6.7
YSMC201210H-R33MB	0.33±20%	24	32	5.5	5.0	6.5	6.0
YSMC201210H-R33MGB	0.33±20%	14	16	5.7	5.2	6.7	6.3
YSMC201210H-R47MB	0.47±20%	29	36	4.7	4.3	5.5	5.0
YSMC201210H-R47MGB	0.47±20%	22	26	5.0	4.5	6.0	5.5
YSMC201210H-R47MBD	0.47±20%	18	20	7.0	6.5	6.0	5.5
YSMC201210H-R56MB	0.56±20%	26	31	5.3	4.7	5.2	4.8
YSMC201210H-R68MB	0.68±20%	37	43	4.3	4.0	5.0	4.5
YSMC201210H-1R0MB	1.0±20%	55	63	3.9	3.5	4.0	3.5
YSMC201210H-1R0MBD	1.0±20%	50	55	4.0	3.5	4.0	3.5
YSMC201210H-1R5MB	1.5±20%	76	85	3.1	2.6	3.2	2.7
YSMC201210H-2R2MB	2.2±20%	135	150	2.0	1.7	2.7	2.4
YSMC201210H-3R3MB	3.3±20%	210	260	1.8	1.5	2.2	1.8
YSMC201210H-4R7MB	4.7±20%	275	300	1.6	1.4	1.8	1.6
YSMC201210H-6R8MB	6.8±20%	440	520	1.5	1.3	1.45	1.2
YSMC201210H-100MB	10±20%	600	660	1.1	1.0	1.2	1.0



## ■ YSMC201212H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201212H-R11MB	0.11±20%	5.5	6.2	12.0	11.0	12.0	11.0
YSMC201212H-R11MBD	0.11±20%	5.0	5.8	12.0	11.0	12.0	11.0
YSMC201212H-R24MB	0.24±20%	13.0	16.0	7.5	7.0	9.0	8.5
YSMC201212H-R24MBD	0.24±20%	13.0	15.0	7.7	7.2	9.0	8.5
YSMC201212H-R47MB	0.47±20%	20.0	23.5	6.0	5.5	5.5	5.0
YSMC201212H-R47MBD	0.47±20%	20.0	22.0	6.2	5.7	5.5	5.0
YSMC201212H-3R3MB	3.3±20%	180	210	1.8	1.6	2.0	1.8

## ■ YSMC201655H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201655H-R33MB	0.33±20%	34	41	4.0	3.5	4.0	3.5
YSMC201655H-R47MB	0.47±20%	44	53	3.5	3.0	3.5	3.0

## ■ YSMC201665H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201665H-R47MB	0.47±20%	33	40	5.0	4.5	4.4	4.0
YSMC201665H-1R0MB	1.0±20%	58	70	3.5	3.0	3.0	2.7
YSMC201665H-2R2MB	2.2±20%	145	170	2.8	2.6	2.2	2.0

## ■ YSMC201607H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201607H-2R2MB	2.2±20%	150	175	2.1	1.8	2.3	2.0

## ■ YSMC201608H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201608H-R22MB	0.22±20%	14	19	6.6	5.9	6.1	5.6
YSMC201608H-R24MB	0.24±20%	14	20	6.5	5.8	6.0	5.5
YSMC201608H-R33MB	0.33±20%	18	24	5.5	4.8	5.8	5.3
YSMC201608H-R47MB	0.47±20%	24	27	4.6	4.4	5.5	5.0
YSMC201608H-R68MB	0.68±20%	39	44	3.8	3.5	4.6	4.2
YSMC201608H-1R0MB	1.0±20%	53	60	3.6	3.3	3.3	3.1
YSMC201608H-1R0MGD	1.0±20%	45	52	3.6	3.3	3.8	3.5
YSMC201608H-1R5MB	1.5±20%	73	85	3.1	2.8	3.0	2.8
YSMC201608H-2R2MB	2.2±20%	123	140	2.2	2.0	2.5	2.3
YSMC201608H-3R3MB	3.3±20%	200	220	1.8	1.5	2.1	1.8
YSMC201608H-4R7MB	4.7±20%	260	290	1.6	1.4	1.7	1.5
YSMC201608H-100MB	10±20%	690	800	1.0	0.9	1.0	0.9

## ■ YSMC201610H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201610H-R10MB	0.10 $\pm$ 20%	7.0	12.0	8.5	8.0	9.0	8.4
YSMC201610H-R11MB	0.11 $\pm$ 20%	7.5	13.0	8.0	7.5	8.9	8.2
YSMC201610H-R15MB	0.15 $\pm$ 20%	8.0	14.0	7.6	7.0	8.7	8.0
YSMC201610H-R22MB	0.22 $\pm$ 20%	11.0	18.0	6.9	6.3	8.2	7.5
YSMC201610H-R24MB	0.24 $\pm$ 20%	12.0	19.0	6.8	6.2	8.0	7.4
YSMC201610H-R24MBD	0.24 $\pm$ 20%	11.0	14.0	6.8	6.2	8.0	7.4
YSMC201610H-R33MB	0.33 $\pm$ 20%	17.0	22.0	5.7	5.3	7.0	6.5
YSMC201610H-R47MB	0.47 $\pm$ 20%	22.0	25.0	5.5	5.0	6.3	5.5
YSMC201610H-R47MBB	0.47 $\pm$ 20%	22.0	25.0	5.8	5.6	6.5	6.0
YSMC201610H-R47MGD	0.47 $\pm$ 20%	18.0	22.0	6.0	5.6	6.2	5.6
YSMC201610H-R47MBF	0.47 $\pm$ 20%	19.0	23.0	6.5	6.0	7.0	6.5
YSMC201610H-R56MB	0.56 $\pm$ 20%	19.0	23.0	7.5	7.0	5.5	5.0
YSMC201610H-R68MB	0.68 $\pm$ 20%	25.0	32.0	4.6	4.3	5.2	4.7
YSMC201610H-R68MBB	0.68 $\pm$ 20%	25.0	32.0	5.5	5.2	5.7	5.5
YSMC201610H-1R0MB	1.0 $\pm$ 20%	35.0	43.0	4.5	4.1	4.6	4.2
YSMC201610H-1R0MBD	1.0 $\pm$ 20%	31.0	36.0	4.6	4.2	4.7	4.2
YSMC201610H-1R5MB	1.5 $\pm$ 20%	80.0	100	2.6	2.3	3.2	2.9
YSMC201610H-1R5MBD	1.5 $\pm$ 20%	60.0	70.0	4.0	3.5	3.3	3.0
YSMC201610H-2R2MB	2.2 $\pm$ 20%	120	130	2.5	2.1	3.0	2.8
YSMC201610H-2R2MGD	2.2 $\pm$ 20%	105	115	2.5	2.1	3.0	2.8
YSMC201610H-3R3MB	3.3 $\pm$ 20%	140	170	1.7	1.5	2.3	2.0
YSMC201610H-4R7MB	4.7 $\pm$ 20%	190	220	1.6	1.4	2.0	1.8
YSMC201610H-6R8MB	6.8 $\pm$ 20%	320	350	1.7	1.5	1.7	1.5
YSMC201610H-100MB	10 $\pm$ 20%	483	580	1.0	0.7	1.4	1.1

## ■ YSMC201612H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC201612H-R10MB	0.10±20%	4.0	6.0	12.0	10.0	13.0	11.5
YSMC201612H-R11MB	0.11±20%	4.8	5.6	15.5	14.5	12.5	11.0
YSMC201612H-R11MBB	0.11±20%	6.3	7.5	13.0	12.0	15.0	14.0
YSMC201612H-R15MB	0.15±20%	7.5	10.0	10.0	9.0	12.0	10.5
YSMC201612H-R24MB	0.24±20%	9.0	11.0	9.1	8.6	9.2	8.7
YSMC201612H-R24MBB	0.24±20%	10.0	12.5	11.0	10.0	10.5	10.0
YSMC201612H-R33MB	0.33±20%	10.0	15.0	7.7	7.2	7.8	7.3
YSMC201612H-R47MB	0.47±20%	13.0	17.0	6.7	6.0	6.7	6.0
YSMC201612H-R68MB	0.68±20%	19.0	23.0	6.0	5.3	6.0	5.3
YSMC201612H-1R0MB	1.0±20%	30.0	36.0	5.0	4.5	5.0	4.5
YSMC201612H-1R5MB	1.5±20%	40.0	50.0	4.0	3.5	4.0	3.5
YSMC201612H-2R2MB	2.2±20%	77.0	90.0	3.3	2.9	3.1	2.7
YSMC201612H-3R3MB	3.3±20%	135	165	2.4	2.0	2.7	2.3
YSMC201612H-6R8MB	6.8±20%	255	300	1.8	1.7	1.9	1.7

## ■ YSMC252055H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252055H-R22MB	0.22±20%	23	28	6.5	6.0	4.8	4.5
YSMC252055H-R47MB	0.47±20%	42	49	5.5	5.2	3.5	3.2

## ■ YSMC252075H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252075H-2R2MG	2.2±20%	78	90	2.3	2.0	2.6	2.4
YSMC252075H-100MG	10±20%	487	530	1.1	0.9	1.1	0.9

### ■ YSMC252008H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252008H-R47MB	0.47±20%	22	27	6.5	6.0	6.0	5.3
YSMC252008H-1R0MB	1.0±20%	34	40	4.3	4.0	4.5	4.0
YSMC252008H-1R5MB	1.5±20%	64	75	3.4	3.0	3.5	3.0
YSMC252008H-2R2MB	2.2±20%	69	77	3.0	2.6	3.0	2.6
YSMC252008H-3R3MB	3.3±20%	150	180	2.5	2.1	2.5	2.1
YSMC252008H-4R7MB	4.7±20%	180	215	2.0	1.5	1.9	1.5
YSMC252008H-100MB	10±20%	500	600	1.4	1.2	1.1	0.9
YSMC252008H-100MBD	10±20%	490	540	1.4	1.3	1.3	1.1

## ■ YSMC252010H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252010H-R22MB	0.22±20%	12.0	17.0	6.8	6.5	8.6	7.9
YSMC252010H-R24MB	0.24±20%	12.0	17.5	6.7	6.4	8.5	7.8
YSMC252010H-R33MB	0.33±20%	13.0	19.0	6.5	6.2	7.6	7.2
YSMC252010H-R47MB	0.47±20%	15.0	22.0	6.1	5.6	7.2	6.5
YSMC252010H-R47MBD	0.47±20%	13.0	15.0	6.5	6.0	6.6	6.0
YSMC252010H-R68MB	0.68±20%	23.0	27.0	5.6	5.0	5.9	5.5
YSMC252010H-R82MB	0.82±20%	25.0	29.0	4.5	4.1	5.3	4.8
YSMC252010H-1R0MB	1.0±20%	25.0	30.0	4.7	4.1	5.4	4.8
YSMC252010H-1R0MBD	1.0±20%	25.0	28.0	7.5	7.0	5.0	4.5
YSMC252010H-1R5MB	1.5±20%	45.0	55.0	3.4	3.0	4.3	3.9
YSMC252010H-2R2MB	2.2±20%	62.0	70.0	2.4	2.1	3.3	3.0
YSMC252010H-2R2MBB	2.2±20%	62.0	70.0	2.6	2.3	3.7	3.3
YSMC252010H-2R2MBD	2.2±20%	62.0	70.0	4.0	3.2	3.4	3.1
YSMC252010H-3R3MB	3.3±20%	86.0	100	2.5	2.1	2.8	2.5
YSMC252010H-4R7MB	4.7±20%	160	180	2.0	1.6	2.6	2.0
YSMC252010H-4R7MBD	4.7±20%	145	160	2.0	1.6	2.6	2.0
YSMC252010H-4R7MBB	4.7±20%	120	130	3.0	2.8	2.2	2.0
YSMC252010H-6R8MB	6.8±20%	270	320	1.6	1.4	2.4	1.9
YSMC252010H-100MB	10±20%	500	560	1.05	0.95	1.55	1.4
YSMC252010H-220MG	22±20%	1100	1300	0.85	0.60	1.1	0.9

## ■ YSMC252012H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252012H-R10MB	0.10 $\pm$ 20%	6.0	10.0	12.0	10.5	13.5	12.5
YSMC252012H-R10MBD	0.10 $\pm$ 20%	4.0	4.8	16.0	15.0	15.0	14.0
YSMC252012H-R11MB	0.11 $\pm$ 20%	4.2	5.0	15.0	14.0	14.0	13.0
YSMC252012H-R15MB	0.15 $\pm$ 20%	7.0	11.0	11.5	10.0	13.0	12.0
YSMC252012H-R22MB	0.22 $\pm$ 20%	9.0	14.0	8.2	7.6	9.6	9.0
YSMC252012H-R22MBD	0.22 $\pm$ 20%	8.0	10.0	11.0	8.0	12.0	10.0
YSMC252012H-R24MB	0.24 $\pm$ 20%	10.0	15.0	8.0	7.5	9.3	8.8
YSMC252012H-R33MB	0.33 $\pm$ 20%	11.0	17.0	6.8	6.4	8.3	7.8
YSMC252012H-R33MBD	0.33 $\pm$ 20%	10.0	12.0	9.0	8.5	9.0	8.5
YSMC252012H-R47MB	0.47 $\pm$ 20%	13.0	19.0	6.5	6.0	7.5	7.0
YSMC252012H-R47MBD	0.47 $\pm$ 20%	11.0	13.0	8.0	7.5	8.5	8.0
YSMC252012H-R68MB	0.68 $\pm$ 20%	17.0	23.0	6.3	5.5	6.5	6.0
YSMC252012H-R68MBD	0.68 $\pm$ 20%	15.0	18.0	7.5	7.0	6.7	6.0
YSMC252012H-R82MB	0.82 $\pm$ 20%	19.0	24.0	5.8	5.3	6.5	5.8
YSMC252012H-R82MBD	0.82 $\pm$ 20%	19.0	23.0	6.3	5.8	6.5	5.8
YSMC252012H-1R0MB	1.0 $\pm$ 20%	35.0	42.0	4.0	3.6	5.6	5.0
YSMC252012H-1R0MBD	1.0 $\pm$ 20%	16.0	22.0	6.1	5.6	6.5	6.0
YSMC252012H-1R0MBF	1.0 $\pm$ 20%	30.0	36.0	5.5	5.0	5.6	5.0
YSMC252012H-1R2MB	1.2 $\pm$ 20%	40.0	45.0	3.8	3.4	4.5	4.1
YSMC252012H-1R2MBD	1.2 $\pm$ 20%	29.0	35.0	5.7	5.2	5.3	4.8
YSMC252012H-1R5MB	1.5 $\pm$ 20%	44.0	50.0	3.7	3.2	4.5	4.1
YSMC252012H-1R5MBF	1.5 $\pm$ 20%	31.0	35.0	4.5	4.1	4.5	4.2
YSMC252012H-1R5MBD	1.5 $\pm$ 20%	27.0	32.0	4.6	4.2	4.7	4.4
YSMC252012H-2R2MB	2.2 $\pm$ 20%	55.0	65.0	3.0	2.7	3.8	3.3
YSMC252012H-3R3MB	3.3 $\pm$ 20%	80.0	97.0	2.3	1.8	3.0	2.7

## ■ YSMC252012H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC252012H-4R7MB	4.7 $\pm$ 20%	150	170	1.8	1.5	2.4	2.1
YSMC252012H-6R8MB	6.8 $\pm$ 20%	245	270	1.6	1.4	2.0	1.7
YSMC252012H-100MB	10 $\pm$ 20%	330	400	1.2	1.05	1.6	1.45
YSMC252012H-150MB	15 $\pm$ 20%	500	565	1.4	1.3	1.4	1.3
YSMC252012H-220MB	22 $\pm$ 20%	740	800	1.2	1.1	1.1	1.0

## ■ YSMC322510H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC322510H-R22MB	0.22 $\pm$ 20%	9.0	11.0	8.5	8.0	8.5	8.0
YSMC322510H-R33MB	0.33 $\pm$ 20%	11.0	15.0	8.3	7.8	8.3	7.8
YSMC322510H-R47MB	0.47 $\pm$ 20%	17.0	22.0	6.4	5.9	8.3	7.6
YSMC322510H-R68MB	0.68 $\pm$ 20%	22.0	28.0	6.2	5.7	7.5	7.0
YSMC322510H-1R0MB	1.0 $\pm$ 20%	25.0	30.0	5.4	4.9	6.0	5.3
YSMC322510H-1R5MB	1.5 $\pm$ 20%	34.0	42.0	4.0	3.6	5.0	4.4
YSMC322510H-2R2MB	2.2 $\pm$ 20%	55.0	66.0	3.7	3.4	4.0	3.5
YSMC322510H-3R3MB	3.3 $\pm$ 20%	105	120	2.7	2.3	3.7	3.3
YSMC322510H-4R7MB	4.7 $\pm$ 20%	125	140	2.3	1.9	2.8	2.5
YSMC322510H-6R8MB	6.8 $\pm$ 20%	290	320	1.9	1.6	2.4	2.0
YSMC322510H-100MB	10 $\pm$ 20%	325	365	2.2	1.8	2.2	1.8



## ■ YSMC322512H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC322512H-R10MB	0.10 $\pm$ 20%	5.2	7.0	12.0	11.0	18.0	16.5
YSMC322512H-R22MB	0.22 $\pm$ 20%	6.6	10.0	9.2	8.7	11.5	11.0
YSMC322512H-R24MB	0.24 $\pm$ 20%	7.0	12.0	9.0	8.5	11.0	10.5
YSMC322512H-R33MB	0.33 $\pm$ 20%	9.0	14.0	8.4	8.1	10.0	9.5
YSMC322512H-R47MB	0.47 $\pm$ 20%	14.0	19.0	7.5	7.2	8.6	8.2
YSMC322512H-R47MBD	0.47 $\pm$ 20%	11.0	14.0	7.5	7.2	8.6	8.2
YSMC322512H-R47MBB	0.47 $\pm$ 20%	10.0	11.0	8.5	8.0	8.5	8.0
YSMC322512H-R68MB	0.68 $\pm$ 20%	18.0	23.0	7.3	6.8	8.1	7.7
YSMC322512H-R68MBD	0.68 $\pm$ 20%	12.0	15.0	7.0	6.5	8.0	7.5
YSMC322512H-1R0MB	1.0 $\pm$ 20%	26.0	30.0	5.3	4.8	6.6	5.8
YSMC322512H-1R0MBD	1.0 $\pm$ 20%	18.0	21.0	6.5	6.0	7.7	7.0
YSMC322512H-1R5MB	1.5 $\pm$ 20%	37.0	44.0	4.7	4.3	5.1	4.7
YSMC322512H-2R2MB	2.2 $\pm$ 20%	58.0	70.0	3.6	3.0	4.6	4.2
YSMC322512H-2R2MBD	2.2 $\pm$ 20%	42.0	50.0	4.2	3.7	5.0	4.5
YSMC322512H-3R3MB	3.3 $\pm$ 20%	75.0	95.0	2.9	2.5	3.7	3.2
YSMC322512H-3R3MGD	3.3 $\pm$ 20%	62.0	67.0	2.9	2.5	3.7	3.2
YSMC322512H-4R7MB	4.7 $\pm$ 20%	115	135	2.3	2.0	2.9	2.6
YSMC322512H-4R7MBF	4.7 $\pm$ 20%	105	120	2.5	2.1	3.0	2.6
YSMC322512H-4R7MBB	4.7 $\pm$ 20%	115	135	2.3	2.0	3.2	2.8
YSMC322512H-6R8MB	6.8 $\pm$ 20%	177	210	2.1	1.9	2.8	2.4
YSMC322512H-100MB	10 $\pm$ 20%	210	230	2.2	1.8	2.3	1.9

## ■ YSMC322520H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC322520H-R27MB	0.27±20%	5.5	6.5	16.0	15.0	16.0	15.0
YSMC322520H-R33MB	0.33±20%	7.5	9.0	9.5	9.0	15.5	14.0
YSMC322520H-R47MB	0.47±20%	9.0	10.5	9.5	8.5	15.0	13.0
YSMC322520H-R68MB	0.68±20%	12.5	14.5	9.0	8.0	13.0	11.0
YSMC322520H-1R0MB	1.0±20%	15.0	17.5	8.2	7.5	9.0	8.3
YSMC322520H-1R5MB	1.5±20%	22.0	25.0	6.5	6.0	6.8	6.0
YSMC322520H-2R2MB	2.2±20%	36.0	43.0	5.4	4.8	6.5	5.5
YSMC322520H-3R3MB	3.3±20%	55.0	60.0	4.5	4.0	4.5	3.5
YSMC322520H-4R7MB	4.7±20%	81.0	94.0	3.5	3.0	4.0	3.0
YSMC322520H-6R8MB	6.8±20%	101	125	2.8	2.3	3.8	2.9

## ■ YSMC0310H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0310H-1R0MB	1.0±20%	30	35	7.0	6.5	5.3	4.8
YSMC0310H-2R2MB	2.2±20%	55	66	5.0	4.5	4.0	3.5
YSMC0310H-4R7MB	4.7±20%	120	140	3.2	2.8	2.7	2.3
YSMC0310H-6R8MB	6.8±20%	225	270	2.1	1.8	1.8	1.5
YSMC0310H-100MB	10±20%	320	360	2.0	1.7	1.6	1.3
YSMC0310H-100MBD	10±20%	250	275	2.2	2.0	1.8	1.5

## ■ YSMC0312H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0312H-R10MB	0.10±20%	5.0	6.0	18.0	17.0	20.0	18.0
YSMC0312H-R47MB	0.47±20%	9.0	11.0	11.0	10.0	8.5	8.0
YSMC0312H-1R0MB	1.0±20%	23.0	27.0	5.5	5.0	6.0	5.5
YSMC0312H-1R5MB	1.5±20%	29.0	34.0	6.0	5.5	5.5	5.0
YSMC0312H-4R7MB	4.7±20%	100	120	3.0	2.5	3.0	2.5
YSMC0312H-100MB	10±20%	192	220	2.3	1.9	2.3	2.0
YSMC0312H-150MB	15±20%	345	380	1.6	1.3	1.9	1.6

## ■ YSMC0315H Series

Part Number	Inductance (uH) @1MHz	DC Resistance (mΩ)		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0315H-R15MB	0.15±20%	5.0	6.0	12.0	11.0	16.0	15.0
YSMC0315H-R47MB	0.47±20%	9.0	11.0	9.0	8.0	10.0	9.0
YSMC0315H-1R0MB	1.0±20%	18.0	22.0	6.0	5.5	7.0	6.5
YSMC0315H-1R5MB	1.5±20%	22.0	26.0	8.0	7.5	6.0	5.5
YSMC0315H-2R2MB	2.2±20%	42.0	50.0	4.5	4.0	5.0	4.5
YSMC0315H-4R7MB	4.7±20%	87	104	3.5	3.0	4.0	3.5
YSMC0315H-6R8MB	6.8±20%	160	180	2.5	2.0	3.5	3.0
YSMC0315H-100MB	10±20%	185	215	2.0	1.5	2.8	2.5
YSMC0315H-220MB	22±20%	580	700	1.2	1.0	1.6	1.2

## ■ YSMC0318H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0318H-R22MB	0.22 $\pm$ 20%	5.5	7.0	10.0	9.0	17.0	16.0
YSMC0318H-R47MB	0.47 $\pm$ 20%	8.0	10.0	9.0	8.0	12.0	11.0
YSMC0318H-1R0MB	1.0 $\pm$ 20%	15.0	21.0	6.3	5.8	7.6	6.8
YSMC0318H-1R5MB	1.5 $\pm$ 20%	20.0	26.0	6.8	6.4	8.0	7.0
YSMC0318H-4R7MB	4.7 $\pm$ 20%	72.0	87.0	3.4	3.0	4.7	4.2

## ■ YSMC0320H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0320H-R15MB	0.15 $\pm$ 20%	4.0	5.0	13.0	12.0	18.0	17.0
YSMC0320H-R33MB	0.33 $\pm$ 20%	7.5	9.0	10.0	9.0	17.0	15.0
YSMC0320H-R47MB	0.47 $\pm$ 20%	8.0	11.0	9.0	8.0	15.0	13.5
YSMC0320H-R50MB	0.50 $\pm$ 20%	9.0	12.0	9.0	8.0	15.0	13.0
YSMC0320H-R68MB	0.68 $\pm$ 20%	13.0	16.0	8.5	7.8	13.0	11.0
YSMC0320H-1R0MB	1.0 $\pm$ 20%	14.0	20.0	6.5	6.0	8.0	7.3
YSMC0320H-1R5MB	1.5 $\pm$ 20%	19.0	25.0	6.3	5.8	7.0	6.5
YSMC0320H-2R2MB	2.2 $\pm$ 20%	37.0	45.0	4.7	4.3	6.0	5.5
YSMC0320H-3R3MB	3.3 $\pm$ 20%	52.0	63.0	4.5	4.0	5.9	5.4
YSMC0320H-4R7MB	4.7 $\pm$ 20%	60.0	73.0	4.2	3.8	4.8	4.0
YSMC0320H-6R8MB	6.8 $\pm$ 20%	107	135	3.2	3.0	4.5	3.8
YSMC0320H-100MB	10 $\pm$ 20%	135	160	2.5	2.2	3.8	3.3
YSMC0320H-150MB	15 $\pm$ 20%	235	260	1.8	1.5	2.6	2.2

## ■ YSMC0410H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0410H-1R0MB	1.0 $\pm$ 20%	22.0	26.0	7.0	6.5	5.3	4.8
YSMC0410H-100MB	10 $\pm$ 20%	220	280	2.5	2.2	2.2	2.0

## ■ YSMC0412H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0412H-R47MB	0.47 $\pm$ 20%	11.5	14.0	9.0	8.5	12.0	11.5
YSMC0412H-R68MB	0.68 $\pm$ 20%	15.0	18.0	8.5	7.5	10.0	9.0
YSMC0412H-1R0MB	1.0 $\pm$ 20%	21.0	25.0	6.3	5.5	11.0	10.0
YSMC0412H-1R5MB	1.5 $\pm$ 20%	29.0	34.5	6.0	5.0	8.0	7.0
YSMC0412H-2R2MB	2.2 $\pm$ 20%	45.0	55.0	5.0	4.5	6.5	6.0
YSMC0412H-3R3MB	3.3 $\pm$ 20%	67.0	80.0	4.5	4.0	5.5	5.0
YSMC0412H-4R7MB	4.7 $\pm$ 20%	90.0	110	3.5	3.0	5.0	4.5
YSMC0412H-5R6MB	5.6 $\pm$ 20%	116	140	3.0	2.5	4.5	4.0
YSMC0412H-6R8MB	6.8 $\pm$ 20%	132	160	2.8	2.3	3.8	3.5
YSMC0412H-100MB	10 $\pm$ 20%	200	235	2.5	2.0	2.8	2.5

### ■ YSMC0420H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0420H-R33MB	0.33 $\pm$ 20%	5.0	6.0	9.5	8.5	18.0	17.0
YSMC0420H-R47MG	0.47 $\pm$ 20%	7.0	8.5	8.5	8.0	16.0	15.0
YSMC0420H-1R0MG	1.0 $\pm$ 20%	12.0	14.5	6.5	6.0	12.5	11.5
YSMC0420H-1R5MG	1.5 $\pm$ 20%	18.0	22.0	6.0	5.5	10.5	9.5
YSMC0420H-2R2MG	2.2 $\pm$ 20%	30.0	36.0	5.5	5.0	9.5	8.5
YSMC0420H-3R3MG	3.3 $\pm$ 20%	35.0	40.0	6.3	5.8	8.0	7.0
YSMC0420H-4R7MG	4.7 $\pm$ 20%	47.0	58.0	5.0	4.0	6.3	5.5
YSMC0420H-6R8MG	6.8 $\pm$ 20%	90.0	105	3.7	3.2	5.4	4.5
YSMC0420H-100MG	10 $\pm$ 20%	113	135	3.4	3.0	4.9	4.0
YSMC0420H-150MG	15 $\pm$ 20%	210	250	2.3	1.7	3.5	3.0
YSMC0420H-220MG	22 $\pm$ 20%	275	330	1.8	1.3	2.9	2.3

## ■ YSMC0430H Series

Part Number	Inductance ( $\mu$ H) @1MHz	DC Resistance (m $\Omega$ )		Heat Rating current(A)		Saturation current(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
YSMC0430H-R47MB	0.47 $\pm$ 20%	5.5	7.0	15.0	14.0	23.0	21.0
YSMC0430H-R56MB	0.56 $\pm$ 20%	6.0	7.5	15.0	14.0	22.0	20.0
YSMC0430H-R68MB	0.68 $\pm$ 20%	8.3	10.0	9.5	8.0	17.0	15.0
YSMC0430H-1R0MG	1.0 $\pm$ 20%	10.0	12.0	10.0	9.0	15.5	14.0
YSMC0430H-1R5MG	1.5 $\pm$ 20%	15.0	18.0	6.5	6.0	12.5	11.0
YSMC0430H-2R2MG	2.2 $\pm$ 20%	19.0	22.0	9.0	8.5	10.5	9.5
YSMC0430H-3R3MG	3.3 $\pm$ 20%	30.0	35.0	5.3	4.8	8.5	7.5
YSMC0430H-4R7MG	4.7 $\pm$ 20%	41.0	46.0	4.3	4.0	7.0	6.0
YSMC0430H-6R8MB	6.8 $\pm$ 20%	51.0	62.0	4.2	3.8	6.3	5.1
YSMC0430H-8R2MB	8.2 $\pm$ 20%	90.0	102	3.9	3.5	5.2	4.8
YSMC0430H-100MB	10 $\pm$ 20%	92	110	3.7	3.3	4.9	4.5
YSMC0430H-220MB	22 $\pm$ 20%	190	220	2.5	2.2	3.4	3.0

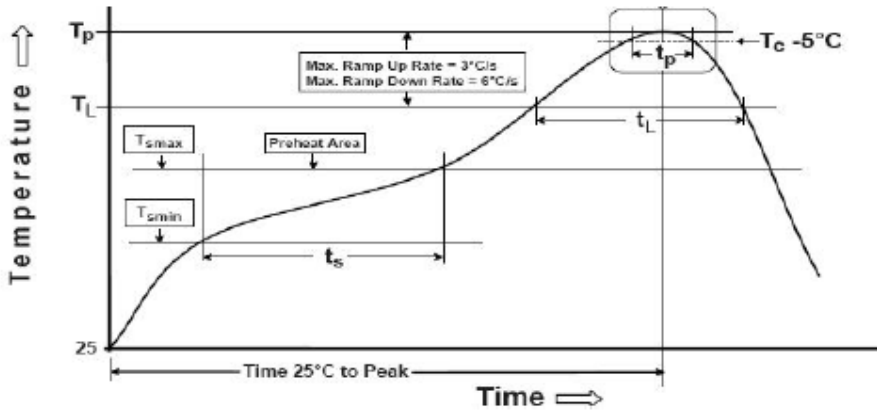
- ※ All test data is referenced to 25 °C ambient.
- ※ Saturation current: indicates the current when the inductance decrease to approximately 70% of initial value.
- ※ The temperature rise current value is the DC current value having temperature increase up to approximately 40°C.
- ※ The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- ※ The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- ※ YJYCOIN recommend products store in warehouse with temperature between 15 to 35°C under humidity between 25 to 75%RH.

## ■ Reliability Test

NO.	Items	Requirements	Test Methods and Remarks								
1	Insulation Resistance	≥100MΩ	100 VDC between inductor coil and The middle of the top surface of the body for 60seconds.								
2	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°C. Immersion Time: (5±1) s.								
3	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°C. Immersion Time: 10±1sec.								
4	Adhesion of teral electrode	Strong bond between the pad and the core, without come off PCB.	Inductors shall be subjected to (260±5)°C for (20±5)s Soldering in the base with 0.3mm solder. And then aplombelectrode way plus tax X N for (10±1) seconds. <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">series</th> <th style="text-align: center;">"X" N</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1008</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">1210~1608</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">2012</td> <td style="text-align: center;">12</td> </tr> </tbody> </table>	series	"X" N	1008	6	1210~1608	8	2012	12
series	"X" N										
1008	6										
1210~1608	8										
2012	12										
5	High temperature	No case deformation or change in appearance. Inductance change: Within ±10%.	Temperature: 125±2°C. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.								
6	Low temperature	No visible mechanical damage. Inductance change: Within ±10%.	Temperature: -55±2°C. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.								
7	Thermal shock	No visible mechanical damage. Inductance change: Within ±10%.	The test sample shall be placed at (-55±3)°C and (125±3)°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.								
8	Temperature characteristic	Inductance change Pc-b,Pc-d: Within ±10%.	a: +20 °C (30~45) → b: -40 °C (30~45) → c: +20 °C (30~45) → d: +125 °C (30~45) → $P_{c-b} = \frac{L_b - L_c}{L_c} \times 100\% \quad ; \quad P_{c-d} = \frac{L_d - L_c}{L_c} \times 100\%$								
9	Static Humidity	No visible mechanical damage. Inductance change: Within ±10%.	Inductors shall be subjected to (95±3)%RH . at (60±2)°C for (1000±4) h. Placed at room temperature for 2 hours, within 48 hours of testing.								
10	Life	No visible mechanical damage. Inductance change: Within ±10%.	Inductors shall be store at (85±2)°C for (1000±4) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing								



**Reflow profile for SMT components**



**Reflow is referred to standard IPC/JEDEC J-STD-020D**

Profile Feature		Lead(Pb) Free solder
Preheat and Soak	Temperature Min.(T <sub>min</sub> )	150°C
	Temperature Max.(T <sub>max</sub> )	200°C
	time(T <sub>min</sub> to T <sub>max</sub> )(t <sub>s</sub> )	60-120 Seconds
Average ramp up rate T <sub>max</sub> to T <sub>p</sub>		3°C/Second Max.
Liquidous temperature(T <sub>L</sub> )		217°C
Time(T <sub>L</sub> )maintained above T <sub>L</sub>		60-150 Seconds
Peak package body temperature(T <sub>p</sub> )		Table2
Time(t <sub>p</sub> )*within 5°C of the specified classification		30*seconds
Temperature(T <sub>c</sub> )		
Average Ramp-down rate(T <sub>p</sub> to T <sub>L</sub> )		6°C/second max
Time 25°C to peak temperature		8 minutes max.

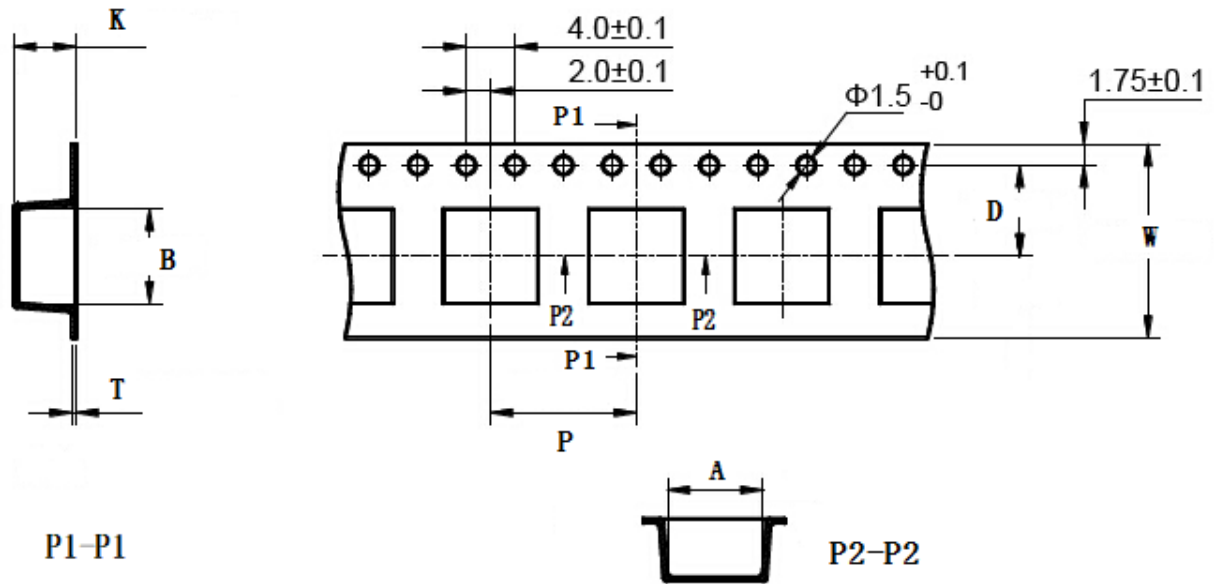
Table2.Pb-Free Process-Classification Temperatures(T<sub>c</sub>)

Package Thickness	Volume mm <sup>3</sup> < 350	Volume mm <sup>3</sup> 350~2000	Volume mm <sup>3</sup> > 2000
< 1.6mm	260°C	260°C	260°C
1.6mm – 2.5mm	260°C	250°C	245°C
> 2.5mm	250°C	245°C	245°C

※ Allowed Re-flow times : 2 times

※ To avoid discoloration phenomena of chip on terminal electrodes, please use N2 Re-flow furnace .

## ■ Taping Dimensions(Unit:mm)

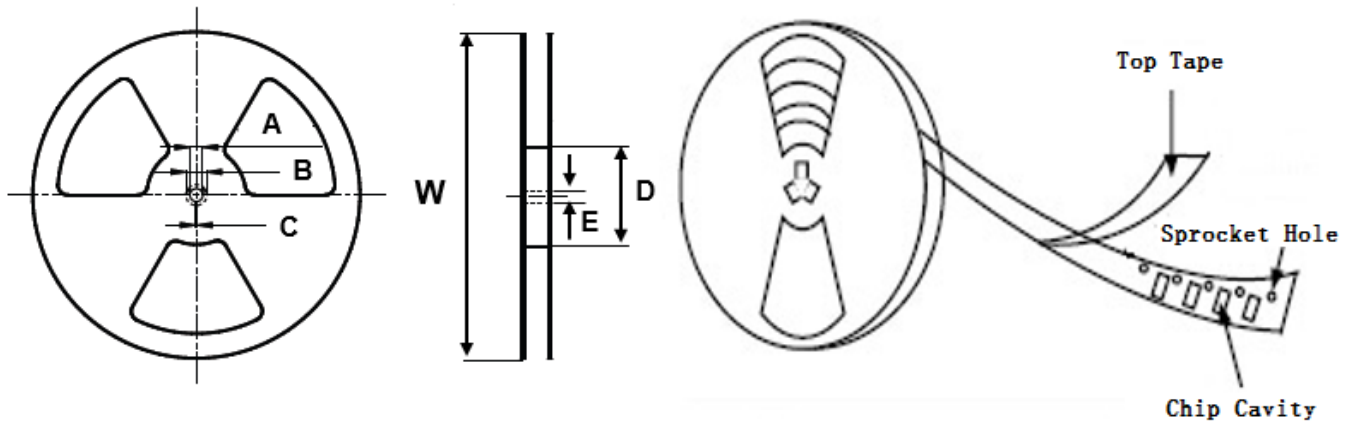


TYPE	W	A	B	D	P	K	T	MPQ
YSMC100765H	8.0±0.10	0.90±0.05	1.25±0.05	3.5±0.10	4.0±0.10	0.80±0.10	0.22±0.05	5000
YSMC121065H	8.0±0.10	1.30±0.05	1.50±0.05	3.5±0.10	4.0±0.10	0.80±0.10	0.22±0.05	3000
YSMC160806H	8.0±0.10	1.00±0.05	1.82±0.05	3.5±0.10	4.0±0.10	0.80±0.10	0.22±0.05	3000
YSMC160865H	8.0±0.10	1.00±0.05	1.82±0.05	3.5±0.10	4.0±0.10	0.80±0.10	0.22±0.05	3000
YSMC160808H	8.0±0.10	1.04±0.05	1.82±0.05	3.5±0.10	4.0±0.10	0.95±0.05	0.22±0.05	3000
YSMC141265H	8.0±0.10	1.50±0.10	1.70±0.10	3.5±0.10	4.0±0.10	0.80±0.10	0.22±0.05	3000
YSMC141207H	8.0±0.10	1.50±0.10	1.70±0.10	3.5±0.10	4.0±0.10	0.95±0.10	0.22±0.05	3000
YSMC141208H	8.0±0.10	1.50±0.10	1.70±0.10	3.5±0.10	4.0±0.10	0.95±0.10	0.22±0.05	3000
YSMC201206H	8.0±0.10	1.40±0.10	2.25±0.10	3.5±0.10	4.0±0.10	0.80±0.10	0.25±0.05	3000
YSMC201265H	8.0±0.10	1.40±0.10	2.25±0.10	3.5±0.10	4.0±0.10	0.80±0.10	0.25±0.05	3000
YSMC201208H	8.0±0.10	1.50±0.10	2.30±0.10	3.5±0.10	4.0±0.10	1.00±0.10	0.22±0.05	3000
YSMC201210H	8.0±0.10	1.50±0.10	2.35±0.10	3.5±0.10	4.0±0.10	1.20±0.10	0.22±0.05	3000
YSMC201212H	8.0±0.10	1.50±0.10	2.35±0.10	3.5±0.10	4.0±0.10	1.40±0.10	0.22±0.05	3000
YSMC201655H	8.0±0.10	1.95±0.10	2.45±0.10	3.5±0.10	4.0±0.10	0.80±0.10	0.25±0.05	3000
YSMC201665H	8.0±0.10	1.95±0.10	2.45±0.10	3.5±0.10	4.0±0.10	0.80±0.10	0.25±0.05	3000
YSMC201607H	8.0±0.10	1.90±0.10	2.35±0.10	3.5±0.10	4.0±0.10	1.00±0.10	0.25±0.05	3000
YSMC201608H	8.0±0.10	1.90±0.10	2.35±0.10	3.5±0.10	4.0±0.10	1.00±0.10	0.25±0.05	3000

## ■ Taping Dimensions(Unit:mm)

TYPE	W	A	B	D	P	K	T	MPQ
YSMC201610H	8.0±0.10	1.95±0.10	2.35±0.10	3.5±0.10	4.0±0.10	1.15+0.10	0.25±0.05	3000
YSMC201612H	8.0±0.10	1.90±0.10	2.30±0.10	3.5±0.10	4.0±0.10	1.35+0.10	0.25±0.05	3000
YSMC252055H	8.0±0.10	2.35±0.10	2.80±0.10	3.5±0.10	4.0±0.10	0.80+0.10	0.23±0.05	3000
YSMC252075H	8.0±0.10	2.35±0.10	2.80±0.10	3.5±0.10	4.0±0.10	1.00+0.10	0.23±0.05	3000
YSMC252008H	8.0±0.10	2.35±0.10	2.80±0.10	3.5±0.10	4.0±0.10	1.00+0.10	0.23±0.05	3000
YSMC252010H	8.0±0.10	2.45±0.10	2.80±0.10	3.5±0.10	4.0±0.10	1.20+0.10	0.25±0.05	3000
YSMC252012H	8.0±0.10	2.35±0.10	2.80±0.10	3.5±0.10	4.0±0.10	1.35+0.10	0.23±0.05	3000
YSMC322510H	8.0±0.10	2.80±0.10	3.50±0.10	3.5±0.10	4.0±0.10	1.15+0.10	0.25±0.05	3000
YSMC322512H	8.0±0.10	2.90±0.10	3.50±0.10	3.5±0.10	4.0±0.10	1.35+0.10	0.25±0.05	3000
YSMC322520H	8.0±0.10	2.90±0.10	3.50±0.10	3.5±0.10	4.0±0.10	2.20+0.10	0.23±0.05	2000
YSMC0310H	12.0±0.30	3.40±0.10	3.40±0.10	5.5±0.10	8.0±0.10	1.40+0.10	0.30±0.05	3000
YSMC0312H	12.0±0.30	3.40±0.10	3.40±0.10	5.5±0.10	8.0±0.10	1.40+0.10	0.30±0.05	3000
YSMC0315H	12.0±0.30	3.40±0.10	3.40±0.10	5.5±0.10	8.0±0.10	1.70+0.10	0.30±0.05	3000
YSMC0318H	12.0±0.30	3.25±0.10	3.25±0.10	5.5±0.10	8.0±0.10	2.00+0.10	0.23±0.05	3000
YSMC0320H	12.0±0.30	3.40±0.10	3.45±0.10	5.5±0.10	8.0±0.10	2.20+0.10	0.30±0.05	3000
YSMC0410H	12.0±0.30	4.40±0.10	4.40±0.10	5.5±0.10	8.0±0.10	1.30+0.10	0.30±0.05	3000
YSMC0412H	12.0±0.30	4.40±0.10	4.40±0.10	5.5±0.10	8.0±0.10	1.30+0.10	0.30±0.05	3000
YSMC0420H	12.0±0.30	4.40±0.10	4.40±0.10	5.5±0.10	8.0±0.10	2.20+0.10	0.30±0.05	3000
YSMC0430H	12.0±0.30	4.40±0.10	4.40±0.10	5.5±0.10	8.0±0.10	3.10+0.10	0.35±0.05	2000

**■ Reel Dimensions(Unit:mm)**

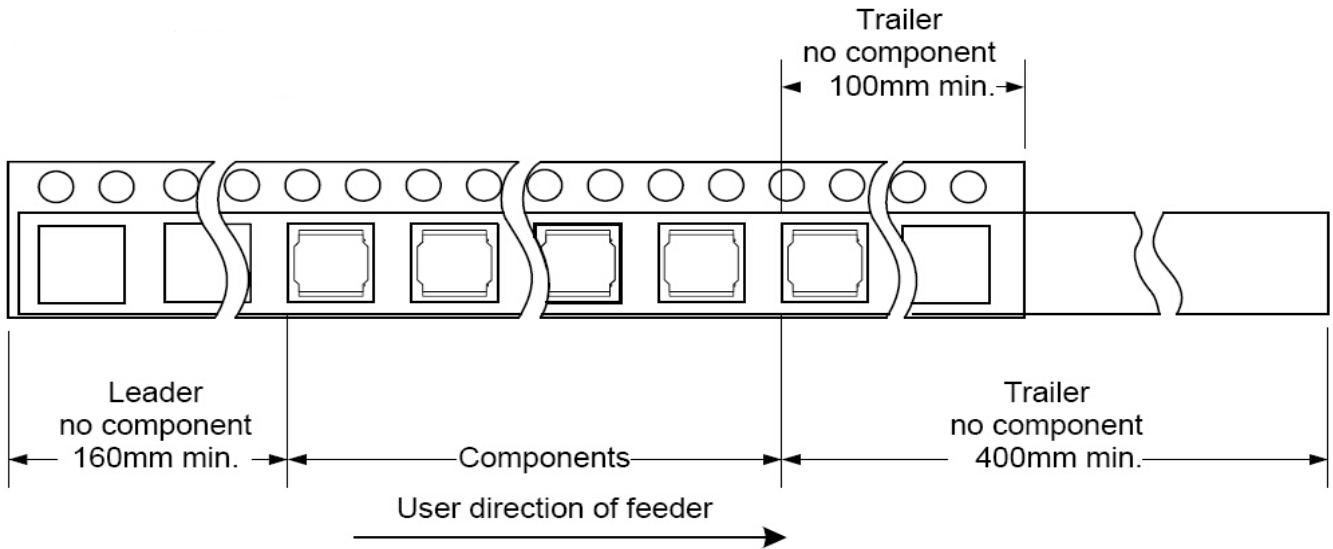


TYPE	W	A	B	C	D	E
YSMC100765H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC121065H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC160806H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC160865H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC160808H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC141265H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC141207H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC141208H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201206H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201265H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201208H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201210H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201212H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201655H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201665H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201607H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201608H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201610H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC201612H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0

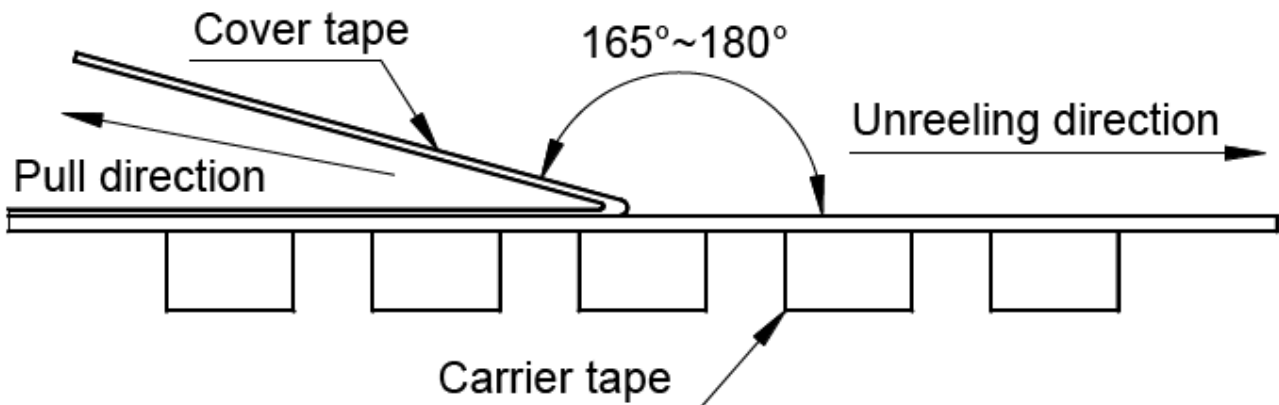
## ■ Reel Dimensions(Unit:mm)

TYPE	W	A	B	C	D	E
YSMC252055H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC252075H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC252008H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC252010H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC252012H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC322510H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC322512H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC322520H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0310H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0312H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0315H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0318H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0320H	178±2.0	13.0±0.5	21.0±0.8	2.0±0.5	60±2.0	9.0±2.0
YSMC0410H	330±2.0	13.0±0.5	21.0±0.8	2.0±0.5	100±2.0	13.0±2.0
YSMC0412H	330±2.0	13.0±0.5	21.0±0.8	2.0±0.5	100±2.0	13.0±2.0
YSMC0420H	330±2.0	13.0±0.5	21.0±0.8	2.0±0.5	100±2.0	13.0±2.0
YSMC0430H	330±2.0	13.0±0.5	21.0±0.8	2.0±0.5	100±2.0	13.0±2.0

**Direction of rolling**



**Cover tape peel off condition**



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.