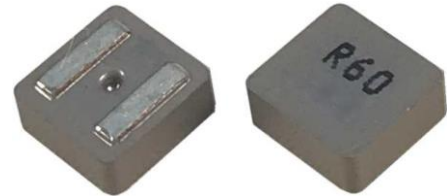




●FEATURE

1. Very low acoustic noise and very low leakage flux noise
2. Soft saturation
3. High current, low DCR, high efficiency
4. Operating Temperature: -40 ~ +125°C
5. Compliant with AEC-Q200



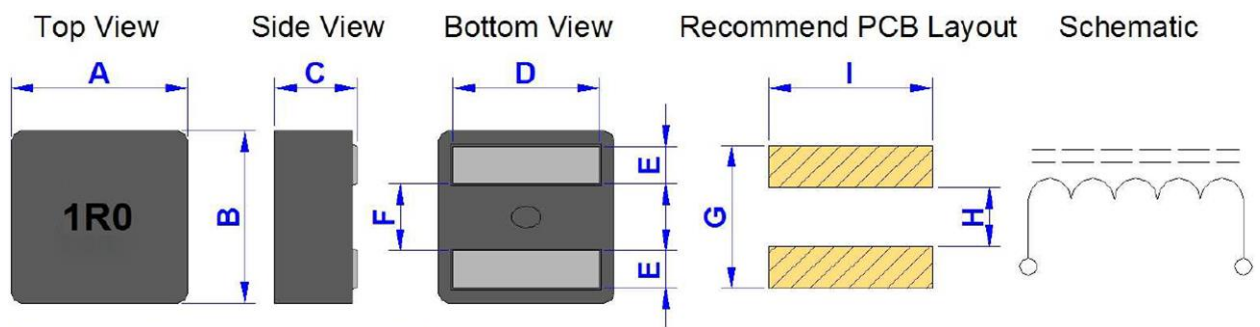
●APPLICATION

DC / DC Converter For CPU In Notebook PC

●ORDERING INFORMATION

<u>WSJ</u>	<u>04030</u>	<u>U</u>	<u>-R90</u>	<u>M</u>	<u>Q</u>
Series	Dimension (L*W*H)	Material code (L)	Impedance (Ω)	Tolerance M=±20%	AEC-Q

●SHAPE AND DIMENSION





●SPECIFICATION

Unit: mm

Type	A	B	C	D	E	F	G	H	I
04020	4.40±0.20	4.40±0.20	1.90±0.20	3.40±0.30	0.88±0.20	1.60±0.25	3.40 Ref.	1.40 Ref.	3.80 Ref.
04020L	4.40±0.20	4.40±0.20	1.90±0.20	3.40±0.30	0.88±0.20	1.60±0.25	3.40 Ref.	1.40 Ref.	3.80 Ref.
04030L	4.40±0.20	4.40±0.20	2.80±0.20	3.40±0.30	0.88±0.20	1.60±0.25	3.40 Ref.	1.40 Ref.	3.80 Ref.
05020	6.00±0.20	5.70±0.20	1.90±0.20	4.30±0.30	1.10±0.20	2.30±0.25	4.50 Ref.	2.00 Ref.	4.70 Ref.
05030	6.00±0.20	5.70±0.20	2.90±0.20	4.30±0.30	1.10±0.20	2.30±0.25	4.50 Ref.	2.00 Ref.	4.70 Ref.
05050L	6.00±0.20	5.70±0.20	4.80±0.20	4.30±0.30	1.10±0.20	2.30±0.25	4.50 Ref.	2.00 Ref.	4.70 Ref.
06030	7.20±0.20	6.90±0.20	By Item	By Item	1.40±0.20	2.60±0.25	5.60 Ref.	2.50 Ref.	5.60 Ref.
06040	7.20±0.20	6.90±0.20	3.80±0.20	By Item	1.40±0.20	2.60±0.25	5.60 Ref.	2.50 Ref.	5.60 Ref.
06050	7.20±0.20	6.90±0.20	4.80±0.20	By Item	1.40±0.20	2.60±0.25	5.60 Ref.	2.50 Ref.	5.60 Ref.
06060	7.20±0.20	6.90±0.20	5.80±0.20	5.30±0.30	1.40±0.20	2.60±0.25	5.60 Ref.	2.50 Ref.	5.60 Ref.
06060L	7.20±0.20	6.90±0.20	5.80±0.20	5.30±0.30	1.40±0.20	2.60±0.25	5.60 Ref.	2.50 Ref.	5.60 Ref.
07020	8.40±0.30	8.00±0.30	1.85±0.20	By Item	1.75±0.20	3.15±0.25	7.40 Ref.	2.80 Ref.	7.20 Ref.
07030	8.40±0.30	8.00±0.30	2.90±0.20	By Item	1.75±0.20	3.15±0.25	7.40 Ref.	2.80 Ref.	7.20 Ref.
07050	8.40±0.30	8.00±0.30	4.80±0.20	6.20±0.30	1.75±0.20	3.15±0.25	7.40 Ref.	2.80 Ref.	7.20 Ref.
07070	8.40±0.30	8.00±0.30	6.70±0.30	By Item	1.75±0.20	3.15±0.25	7.80 Ref.	2.80 Ref.	6.70 Ref.
08080	8.90±0.30	8.50±0.30	7.70±0.30	6.9±0.4	1.80±0.20	3.50±0.30	8.00 Ref.	2.70 Ref.	7.80 Ref.
10031L	11.9±0.30	11.0±0.30	2.90±0.20	9.00±0.50	2.40±0.20	4.40±0.30	10.5 Ref.	3.70 Ref.	11.0 Ref.
10060	11.9±0.30	11.0±0.30	5.70±0.30	By Item	2.40±0.20	4.50±0.30	10.5 Ref.	3.70 Ref.	11.0 Ref.
10100	11.9±0.30	11.0±0.30	9.70±0.30	By Item	2.40±0.20	4.40±0.30	10.5 Ref.	3.70 Ref.	11.0 Ref.
15080	17.5±0.30	16.5±0.30	7.70±0.30	13.2±0.50	3.20±0.20	7.00±0.30	15.0 Ref.	6.00 Ref.	15.0 Ref.
15100	17.5±0.30	16.5±0.30	9.70±0.30	13.2±0.50	3.20±0.20	7.00±0.30	15.0 Ref.	6.00 Ref.	15.0 Ref.
15130	17.5±0.30	16.5±0.30	12.7±0.30	13.2±0.50	3.20±0.20	7.00±0.30	15.0 Ref.	6.00 Ref.	15.0 Ref.



● ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ04020-R10M	0.10	2.20	2.42	38.0	33.0	13.5	18.0
WSJ04020-R22M	0.22	4.10	4.60	19.5	18.8	13.0	16.8
WSJ04020-R33M	0.33	5.00	5.50	18.0	16.5	12.0	15.5
WSJ04020-R36M	0.36	5.60	6.30	17.0	15.0	11.0	14.5
WSJ04020-R40M	0.40	6.90	7.73	15.5	13.5	10.0	14.0
WSJ04020-R47M	0.47	7.80	8.58	14.5	13.0	9.0	12.5
WSJ04020-R56M	0.56	8.40	9.30	14.0	12.6	8.5	12.0
WSJ04020-R60M	0.60	8.60	9.52	13.7	12.3	8.0	11.7
WSJ04020-R72M	0.72	10.4	11.6	12.0	10.6	7.6	10.5
WSJ04020-1R0M	1.00	13.3	14.6	9.6	8.8	6.8	9.6
WSJ04020-1R2M	1.20	16.2	17.9	9.0	7.8	6.6	9.0
WSJ04020-1R5M	1.50	21.0	23.5	8.0	7.4	5.8	7.6
WSJ04020-1R8M	1.80	25.0	28.0	7.5	7.0	5.2	7.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 15V ref (1.5uH and above).

* Rated operating voltage (across inductor) 40V ref (1.2uH and below).

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)				Irms (A)	
		Typ.	Max.	Typ. (1)	Typ. (2)	Typ. (3)	Max.	20°C	40°C
WSJ04020L-R47M	0.47	6.00	6.80	7.0	10.0	14.0	12.5	9.8	13.2
WSJ04020L-R56M	0.56	6.90	7.80	6.0	9.0	13.0	11.3	9.5	12.6
WSJ04020L-R60M	0.60	6.90	7.80	5.8	8.8	12.8	11.1	9.4	12.4
WSJ04020L-R68M	0.68	7.30	8.20	5.2	8.0	11.6	10.0	9.2	12.0
WSJ04020L-R82M	0.82	8.60	9.50	4.8	6.5	10.2	9.0	8.5	11.5
WSJ04020L-1R0M	1.00	10.60	11.7	4.5	5.4	9.2	8.0	8.0	11.0
WSJ04020L-1R2M	1.20	12.20	13.4	4.3	5.0	8.6	7.5	7.2	9.5
WSJ04020L-1R5M	1.50	14.40	15.8	4.1	4.5	7.5	6.7	6.7	9.1
WSJ04020L-2R0M	2.00	21.15	23.3	3.2	4.0	6.2	5.0	6.2	8.2
WSJ04020L-2R2M	2.20	21.35	23.5	3.1	3.8	6.0	4.8	6.0	8.0
WSJ04020L-3R3M	3.30	34.20	38.3	2.7	3.4	5.3	4.4	4.4	5.5

* Test Condition @100KHz, 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms : Rated Current Loading when temperature rise approximately 40°C

* Isat - Typ. (1): Saturated Current measured at the point of L drop approximately 10%

Isat - Typ. (2): Saturated Current measured at the point of L drop approximately 20%

Isat - Typ. (3): Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor)15V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)				Irms (A)	
		Typ.	Max.	Typ. (1)	Typ. (2)	Typ. (3)	Max.	20°C	40°C
WSJ04030L-R90M	0.90	9.1	10.1	5.2	7.0	10.0	9.2	8.2	11.2
WSJ04030L-1R0M	1.00	9.1	10.1	5.0	6.8	9.8	9.0	8.0	11.0
WSJ04030L-1R2M	1.20	10.4	11.5	4.6	6.4	9.2	8.7	7.8	9.8
WSJ04030L-1R5M	1.50	12.0	13.2	4.1	5.6	8.0	7.0	7.0	9.0
WSJ04030L-2R2M	2.20	20.5	22.6	3.6	5.1	7.0	6.1	6.0	7.8
WSJ04030L-3R3M	3.30	26.0	28.6	3.3	4.8	6.2	5.3	5.0	6.6

* Test Condition @100KHz, 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms : Rated Current Loading when temperature rise approximately 40°C

* Isat - Typ. (1): Saturated Current measured at the point of L drop approximately 10%

Isat - Typ. (2): Saturated Current measured at the point of L drop approximately 20%

Isat - Typ. (3): Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor)15V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ05020-R15M	0.15	4.0	4.6	30.0	27.0	13.9	18.8
WSJ05020-R16M	0.16	4.0	4.6	30.0	27.0	13.9	18.8
WSJ05020-R33M	0.33	6.1	7.0	26.0	24.0	10.5	14.4
WSJ05020-R47M	0.47	7.0	8.05	22.0	20.0	10.1	14.1
WSJ05020-R56M	0.56	8.7	9.54	19.0	16.0	9.9	13.9
WSJ05020-R68M	0.68	8.9	10.2	16.0	14.0	9.6	13.4
WSJ05020-R80M	0.80	10.3	11.8	15.5	13.5	9.4	13.0
WSJ05020-R82M	0.82	11.0	12.7	15.0	13.0	8.5	12.0
WSJ05020-1R0M	1.00	12.0	13.8	14.5	12.8	7.5	10.5
WSJ05020-1R2M	1.20	14.2	16.3	14.0	12.2	6.8	9.4
WSJ05020-1R5M	1.50	16.2	18.7	13.3	11.7	6.4	8.8

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ05030-R15M	0.15	2.10	2.31	36.0	32.5	14.3	22.2
WSJ05030-R16M	0.16	2.12	2.33	35.0	32.0	14.2	22.2
WSJ05030-R28M	0.28	3.00	3.30	32.0	28.0	14.0	19.0
WSJ05030-R33M	0.33	3.20	3.52	28.0	26.0	13.8	19.2
WSJ05030-R47M	0.47	3.75	4.13	26.0	24.0	13.7	18.4
WSJ05030-R56M	0.56	4.05	4.52	22.2	20.2	13.6	17.7
WSJ05030-R60M	0.60	4.11	4.52	22.0	20.0	13.6	17.7
WSJ05030-R80M	0.80	5.14	5.65	20.0	18.0	10.1	13.1
WSJ05030-R82M	0.82	5.25	5.78	19.7	17.6	9.9	12.9
WSJ05030-1R0M	1.00	6.90	7.60	16.5	14.3	9.0	12.2
WSJ05030-1R2M	1.20	8.80	9.70	15.0	13.5	8.5	11.0
WSJ05030-1R5M	1.50	10.1	11.2	14.0	12.5	8.0	10.5
WSJ05030-1R8M	1.80	11.5	12.7	12.3	11.3	7.6	10.1
WSJ05030-2R2M	2.20	13.2	14.5	10.0	9.0	7.2	9.7
WSJ05030-3R3M	3.30	21.0	23.1	9.5	8.7	5.9	8.1
WSJ05030-4R7M	4.70	33.0	36.3	8.2	7.0	4.3	5.9

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ05050L-5R6M	5.60	22.0	24.2	8.6	7.2	5.3	7.2
WSJ05050L-6R8M	6.80	26.0	28.6	7.8	6.6	4.8	6.4
WSJ05050L-8R2M	8.20	29.5	32.5	7.2	6.1	4.6	6.1
WSJ05050L-100M	10.0	39.0	43.0	6.5	5.4	3.8	5.0
WSJ05050L-150M	15.0	60.0	66.0	5.5	4.6	3.0	4.0
WSJ05050L-220M	22.0	90.6	99.65	5.0	4.1	2.5	3.4

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 15V ref



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size C (mm)	Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C		
WSJ06030-R18M	0.18	1.60	1.75	40.0	36.0	24.0	32.0	2.80±0.20	5.30±0.30
WSJ06030-R33M	0.33	2.25	2.50	32.0	28.0	20.0	25.0	2.80±0.20	5.55±0.30
WSJ06030-R56M	0.56	3.00	3.31	29.0	25.0	17.0	22.0	2.80±0.20	5.30±0.30
WSJ06030-R68M	0.68	4.70	5.17	25.0	21.0	15.0	20.0	2.80±0.20	5.30±0.30
WSJ06030-1R0M	1.00	5.50	6.05	23.0	18.0	13.0	18.0	2.80±0.20	5.20±0.30
WSJ06030-1R2M	1.20	6.70	7.40	22.0	16.0	12.0	16.0	2.80±0.20	5.15±0.30
WSJ06030-1R5M	1.50	8.30	9.13	20.0	15.5	11.0	15.0	2.90±0.20	5.15±0.30
WSJ06030-1R8M	1.80	9.20	10.2	18.2	13.0	10.0	14.0	2.90±0.20	5.10±0.30
WSJ06030-2R2M	2.20	11.0	12.2	15.9	11.0	7.0	10.0	2.90±0.20	5.05±0.30
WSJ06030-3R3M	3.30	18.8	20.8	12.2	9.0	6.0	8.0	2.90±0.20	5.00±0.30
WSJ06030-4R5M	4.50	23.0	25.3	10.0	8.0	5.0	7.0	2.90±0.20	5.00±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ06040-R18M	0.47	2.60	2.86	31.0	27.0	19.0	24.0	5.50±0.30
WSJ06040-R68M	0.68	3.60	3.96	26.0	22.0	16.0	20.5	5.50±0.30
WSJ06040-1R1M	1.00	4.90	5.39	23.0	18.0	14.0	19.0	5.20±0.30
WSJ06040-1R5M	1.50	6.40	7.04	17.0	13.0	12.0	16.0	5.20±0.30
WSJ06040-2R2M	2.20	10.6	11.7	15.9	11.5	8.0	11.0	5.00±0.30
WSJ06040-3R3M	3.30	14.1	15.5	12.3	9.6	7.0	9.2	5.00±0.30
WSJ06040-4R7M	4.70	21.0	23.1	10.2	8.0	6.0	7.8	5.00±0.30
WSJ06040-5R6M	5.60	25.5	28.1	9.8	7.8	5.0	6.7	5.00±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ06050-R82M	0.82	3.80	4.18	24.0	20.0	16.0	21.0	5.30±0.30
WSJ06050-1R1M	1.00	4.10	4.52	23.0	18.0	15.0	20.0	5.30±0.30
WSJ06050-1R2M	1.20	5.30	5.83	22.0	16.0	14.0	18.0	5.30±0.30
WSJ06050-1R5M	1.50	5.70	6.30	19.5	14.5	13.0	17.0	5.30±0.30
WSJ06050-1R8M	1.80	6.40	7.10	18.5	13.5	12.0	16.0	5.30±0.30
WSJ06050-2R2M	2.20	7.70	8.50	16.0	12.0	10.0	13.0	5.20±0.30
WSJ06050-3R3M	3.30	11.2	12.5	12.5	10.0	8.5	11.0	5.20±0.30
WSJ06050-4R3M	4.30	15.1	16.2	11.0	8.5	7.0	9.0	5.20±0.30
WSJ06050-4R7M	4.70	16.7	18.4	10.5	8.4	6.5	8.5	5.20±0.30
WSJ06050-5R6M	5.60	20.0	22.0	10.0	8.3	5.7	7.0	5.20±0.30
WSJ06050-6R8M	6.80	23.1	25.4	9.0	7.0	5.2	6.6	5.20±0.30
WSJ06050-8R2M	8.20	28.6	31.5	8.0	6.8	4.5	6.2	5.20±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ06060-1R0M	1.0	4.00	4.40	24.0	19.0	16.0	21.0
WSJ06060-1R5M	1.5	5.50	6.10	20.0	15.0	13.5	17.5
WSJ06060-2R2M	2.2	7.30	8.10	16.5	12.5	11.0	14.0
WSJ06060-3R3M	3.3	11.1	12.3	13.0	11.0	9.0	12.0
WSJ06060-4R7M	4.7	15.1	16.2	11.5	9.5	8.5	11.0
WSJ06060-5R6M	5.6	18.2	20.0	10.6	9.1	7.6	10.0
WSJ06060-6R8M	6.8	21.0	23.2	9.8	8.7	7.0	9.0
WSJ06060-8R2M	8.2	26.2	28.9	8.6	7.5	5.0	7.0
WSJ06060-100M	10.0	33.0	36.3	7.5	6.3	4.0	5.8

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ06060L-1R0M	1.0	3.90	4.29	18.0	16.0	15.0	19.0
WSJ06060L-1R5M	1.5	5.10	5.61	16.0	14.0	13.0	16.0
WSJ06060L-2R2M	2.2	7.00	7.80	14.0	12.0	11.0	14.0
WSJ06060L-3R3M	3.3	11.0	12.1	11.5	10.5	9.0	12.0
WSJ06060L-4R7M	4.7	13.1	14.4	10.5	9.5	8.0	11.0
WSJ06060L-5R6M	5.6	14.3	15.8	10.0	9.0	7.5	10.0
WSJ06060L-6R8M	6.8	18.9	20.8	9.2	8.7	7.0	9.0
WSJ06060L-8R2M	8.2	22.5	24.8	8.5	8.0	6.0	8.0
WSJ06060L-100M	10.0	26.6	29.3	7.6	6.8	5.0	7.0
WSJ06060L-150M	15.0	39.0	43.0	5.8	5.2	4.5	6.0
WSJ06060L-220M	22.0	55.0	60.5	5.6	5.0	3.8	5.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 15V ref

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ07020-R27M	0.27	2.9	3.5	35.0	32.0	16.0	21.0	6.60±0.30
WSJ07020-R31M	0.31	4.0	4.8	34.0	31.0	14.0	20.0	6.20±0.30
WSJ07020-R33M	0.33	4.0	4.8	34.0	31.0	13.0	19.0	6.20±0.30
WSJ07020-R47M	0.47	5.1	6.2	28.0	25.0	12.0	17.0	6.20±0.30
WSJ07020-R68M	0.68	7.9	9.2	25.0	23.0	10.0	13.0	6.20±0.30
WSJ07020-1R0M	1.00	9.8	10.8	23.0	20.0	8.0	11.0	6.20±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ07030-1R0M	1.00	4.55	5.00	30.0	28.0	16.1	21.8	6.60±0.30
WSJ07030-1R5M	1.50	7.50	8.25	25.0	23.5	12.0	15.3	6.60±0.30
WSJ07030-2R2M	2.20	12.4	13.7	19.0	17.0	10.0	13.0	6.20±0.30
WSJ07030-2R7M	2.70	14.0	15.4	16.0	13.5	9.2	11.4	6.20±0.30
WSJ07030-3R3M	3.30	16.3	18.0	15.0	13.0	8.0	10.0	6.20±0.30
WSJ07030-4R7M	4.70	24.2	26.7	13.5	12.2	6.9	9.0	6.20±0.30
WSJ07030-5R6M	5.60	30.1	33.2	12.5	11.5	5.3	7.3	6.20±0.30
WSJ07030-6R8M	6.80	38.6	42.5	12.0	11.0	4.5	6.8	6.20±0.30
WSJ07030-8R2M	8.20	44.3	48.73	10.2	9.0	3.0	5.9	6.20±0.30
WSJ07030-100M	10.0	51.0	56.1	9.0	7.0	2.8	5.0	6.20±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ07050-2R2M	2.20	5.8	6.4	21.0	17.0	11.0	14.0
WSJ07050-3R3M	3.30	10.4	11.44	17.0	14.0	10.0	13.0
WSJ07050-4R7M	4.70	14.0	15.4	15.0	13.0	8.5	11.0
WSJ07050-5R6M	5.60	15.6	17.2	13.0	11.0	7.0	10.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ07070-2R2M	2.2	5.73	6.33	19.6	17.6	13.2	17.8	6.7±0.30
WSJ07070-3R3M	3.3	8.56	9.42	19.4	15.1	11.5	15.1	6.7±0.30
WSJ07070-4R7M	4.7	12.2	13.5	15.5	14.0	10.5	13.6	6.7±0.30
WSJ07070-6R8M	6.8	17.8	19.6	12.8	11.0	7.0	9.5	6.5±0.30

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ08080-3R3M	3.3	6.6	7.3	23.0	20.0	13.5	18.0
WSJ08080-4R7M	4.7	8.9	9.8	19.0	17.0	10.5	14.6
WSJ08080-6R8M	6.8	13.0	14.3	14.5	12.5	8.0	11.3
WSJ08080-100M	10.0	20.8	22.9	11.0	10.0	6.6	8.7

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ10031L-R28M	0.28	1.45	1.60	65.0	58.0	25.5	35.0
WSJ10031L-R56M	0.56	2.50	2.75	44.0	39.0	23.0	32.0
WSJ10031L-R82M	0.82	3.70	4.10	38.0	32.0	18.0	25.0
WSJ10031L-R90M	0.90	3.80	4.20	36.0	31.0	17.0	24.0
WSJ10031L-1R0M	1.00	4.50	4.95	35.0	30.0	16.0	23.0
WSJ10031L-1R5M	1.50	6.00	6.60	30.0	25.0	12.0	18.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 15V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ10060-1R5M	1.50	2.90	3.30	40.0	36.0	16.0	24.5	9.0±0.50
WSJ10060-2R2M	2.20	4.40	4.84	35.0	30.0	14.0	20.0	9.0±0.50
WSJ10060-3R3M	3.30	7.00	7.70	28.0	25.0	11.4	16.8	9.0±0.50
WSJ10060-4R7M	4.70	9.70	10.72	25.0	22.0	8.7	14.0	9.0±0.50
WSJ10060-5R6M	5.60	10.8	11.9	20.0	17.0	7.0	12.0	8.8±0.50
WSJ10060-6R8M	6.80	11.8	13.0	18.0	15.5	6.0	10.5	8.8±0.50
WSJ10060-8R2M	8.20	15.0	16.5	16.5	14.0	5.0	9.5	8.8±0.50
WSJ10060-100M	10.0	16.5	18.2	15.0	13.0	4.5	9.0	8.8±0.50

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)		Size D (mm)
		Typ.	Max.	Typ.	Max.	20°C	40°C	
WSJ10100-4R7M	4.7	5.2	5.7	25.4	21.4	17.5	24.0	9.3±0.50
WSJ10100-5R6M	5.6	6.5	7.2	23.6	19.6	15.7	21.2	9.3±0.50
WSJ10100-6R8M	6.8	8.1	8.9	21.8	18.5	14.0	18.5	9.0±0.50
WSJ10100-8R2M	8.2	10.8	12.4	18.3	16.3	12.9	17.1	9.0±0.50
WSJ10100-100M	10.0	12.5	13.75	17.5	14.6	11.5	15.5	9.0±0.50

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ15080-2R0M	2.00	1.92	2.21	57.0	52.0	29.5	40.0
WSJ15080-2R2M	2.20	2.15	2.48	55.0	49.0	28.0	37.0
WSJ15080-3R0M	3.00	2.50	3.00	46.0	41.0	26.0	34.5
WSJ15080-4R2M	4.20	3.90	4.68	38.0	33.0	20.5	27.0
WSJ15080-4R7M	4.70	4.30	5.16	37.0	32.0	20.0	26.5
WSJ15080-5R3M	5.30	4.45	5.34	35.0	31.0	19.5	26.0
WSJ15080-6R2M	6.20	5.40	6.50	34.0	31.0	17.0	23.0
WSJ15080-7R2M	7.20	6.00	7.20	32.0	29.0	15.0	21.0
WSJ15080-8R2M	8.20	6.60	7.92	28.0	25.0	13.0	19.0
WSJ15080-100M	10.0	8.00	9.60	24.0	21.0	11.0	16.0
WSJ15080-150M	15.0	12.5	15.0	21.0	18.0	10.0	13.0
WSJ15080-220M	22.0	19.3	23.2	19.0	16.0	9.0	12.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= ±20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



Part Number	Inductance (μ H)	DCR (m Ω)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ15100-4R7M	4.70	3.40	3.80	43.0	39.0	22.0	30.0
WSJ15100-5R6M	5.60	3.82	4.20	38.0	34.0	21.0	28.0
WSJ15100-6R8M	6.80	4.18	4.60	36.0	31.0	20.0	26.0
WSJ15100-8R2M	8.20	6.00	7.20	32.0	28.0	19.0	25.0
WSJ15100-100M	10.0	7.10	8.60	29.0	26.0	18.0	24.0
WSJ15100-150M	15.0	9.20	11.5	23.0	20.0	14.0	18.0
WSJ15100-220M	22.0	13.2	15.8	20.0	18.0	11.0	16.0
WSJ15100-330M	33.0	18.7	20.0	18.7	16.7	9.0	13.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= \pm 20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.

Part Number	Inductance (μ H)	DCR (m Ω)		Isat (A)		Irms (A)	
		Typ.	Max.	Typ.	Max.	20°C	40°C
WSJ15130-4R7M	4.7	3.00	3.30	44.0	40.0	23.0	31.0
WSJ15130-5R6M	5.6	3.50	3.90	40.0	35.0	22.0	29.0
WSJ15130-6R8M	6.8	3.80	4.20	37.0	32.0	21.0	27.0
WSJ15130-8R2M	8.2	5.10	5.74	33.0	29.0	20.0	26.0
WSJ15130-100M	10.0	6.30	7.00	30.0	27.0	19.0	25.0
WSJ15130-150M	15.0	6.80	7.50	25.5	21.0	16.0	22.0
WSJ15130-220M	22.0	12.6	13.86	22.0	19.0	12.0	17.0
WSJ15130-330M	33.0	18.5	22.2	19.0	16.0	9.0	14.0

* Test Condition @100KHz , 0.1Vrms , 25°C Ambient

* M=Tolerance= \pm 20%

* Irms: Rated Current Loading when temperature rise approximately 40°C

* Isat: Saturated Current measured at the point of L drop approximately 30%

* The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* Rated operating voltage (across inductor) 40V ref.



●RELIABILITY

Test Item	Test Condition	Specification												
Dimension	Actual Size ...	Meet Spec												
Thermal Shock (Temperature Cycle)	Temperature: -40 ~ +125°C kept stabilized for 30 min. each Cycle: 100 Cycles (power off)	Elec. no variation Appearance no deformation												
Humidity Resistance	Humidity: 90% ~ 95% RH Temperature: 60 ± 2°C Test Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
High Temperature	Temperature: 125 ± 2°C Testing Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
Low Temperature	Temperature: -40 ± 2°C Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
Temperature and Humidity Cycle	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>25°C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> <tr> <td>55°C</td> <td>95% ~ 96% RH</td> <td>5.0 Hr</td> </tr> <tr> <td>25°C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> </tbody> </table>	Temperature	Humidity	Time	25°C	90% ~ 95% RH	3.0 Hr	55°C	95% ~ 96% RH	5.0 Hr	25°C	90% ~ 95% RH	3.0 Hr	Elec. no variation Appearance no deformation
	Temperature	Humidity	Time											
	25°C	90% ~ 95% RH	3.0 Hr											
	55°C	95% ~ 96% RH	5.0 Hr											
25°C	90% ~ 95% RH	3.0 Hr												
Cycle: 20 Cycles														
Vibration	Frequency: 10Hz ~ 55Hz , Amplitude: 1.5 mm Direction: X, Y, Z, Time: 2 Hours each	Elec. no variation Appearance no deformation												
Solderability	Go through real SMT IR-Reflow The profile like our suggest profile. Preheat: 160 ± 10°C (90 sec) Peak: 245 ± 5°C Peak Time: 50 Sec. / up 217°C	Elec. no variation Appearance no deformation												
Soldering Heat Resistance	Preheat: 160 ± 10°C (90 sec) Solder: Sn / Ag / Cu (Pb Free) Solder Temp.: 260 ± 5°C, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation												
Iron Solder Heat Resistance	Solder Temp.: 350 ± 5°C Flux: Rosin, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation												
Bending Strength	<p>Unit : mm</p> <p>Force : 1Kg / min.</p>	Elec. no variation Appearance no deformation												
Flexure Strength	<p>Unit : mm</p> <p>Solder cream 0.15 mm</p>	Elec. no variation Appearance no deformation												
Terminal Strength	<p>Mount on PCB Solder Cream 0.15 mm</p> <p>Push 10N force to X , Y direction</p>	Elec. no variation Appearance no deformation												
High-Voltage	100 V DC between core & winding	Elec. no variation Appearance no deformation												
Load life	Temperature: 25 ± 3°C Load: Allowed DC Current, Test Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												



● **TEST EQUIPMENT**

1. HP4284A, HP42841A - L, Q, DCR, IDC
2. HP8753D Network analyzer – SRF

● **OPERATING & STORAGE CONDITION**

1. Operating Temp: -40 ~ +125°C (Including self - temperature rise)
2. Storage Temp: a. Product with Taping: -10 ~ 45°C, 50 ~ 60% RH
b. On Board: -40 ~ +125°C
3. Storage Life Time: 12 Month (Less than 40°C and 60% RH)

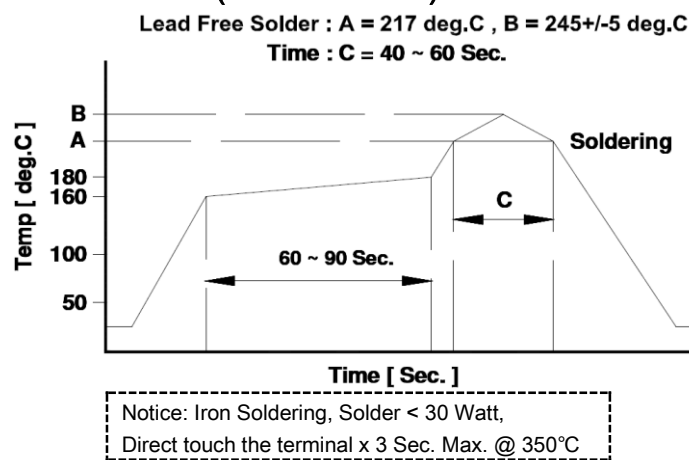
Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15°C; Humidity RH 65 ± 20%

If there may be any doubt on the test result, Measurement shall be made within the following limits:

Ambient Temperature 25 ± 5°C; Humidity RH 75 ± 10%

● **RECOMMEND REFLOW CURVE (TIME: Second)**



● **ATTENTION & CAUTION:**

- * Keep out of Splashing water or salt water
- * Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- * Vibrations or shocks which exceed the specified condition
- * Dew condense
- * Layout near the edge of PCB
- * Over flexure after SMT mounting & PCBA
- * Pin foot or SMD pad solder ability: Pb free type is best within 6 months after delivery
- * Humidity sensitive, IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150°C before PCBA
- * Caution for human life relative applications: PLS contact & consult with AiT team in design stage.



Care Note for Use:

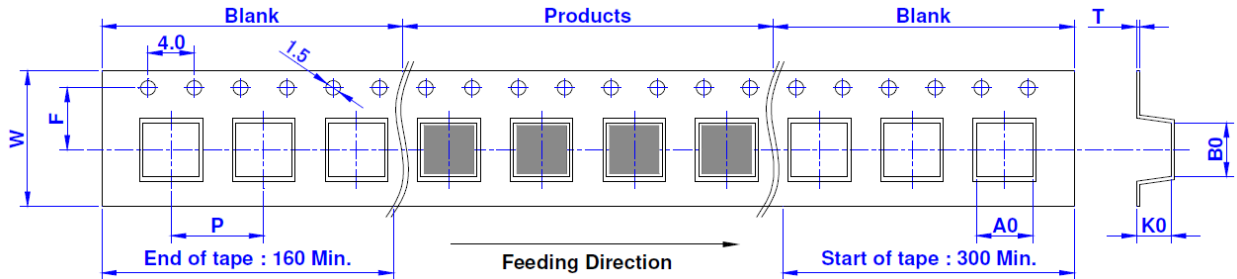
- (1) Storage Condition:
Temperature 25 to 35°C, Humidity 45 to 60% RH
- (2) Use Temperature:
 - a. Minimum Temperature: -40°C Ambient temperature of this product.
 - b. Maximum Temperature: +125°C The value of temperature including ambient and temperature rise of this product.
 - c. Reliability test temperature range from -40 ~ +125°C
 - d. However, this is not meant as temperature grade guarantee for UL.
- (3) Model:
When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.
- (4) Drop:
If this product suffered mechanical stress such as drop, characteristics may become poor (due to damage on coil / bobbin / ferrite ... etc.)
Never use such stressed product.

Care Note for Safety:

- (1) Provision to Abnormal Condition:
This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.
Therefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance, etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.
- (2) Temperature Rise:
Temperature rise on this product depends on the installation condition on end products.
It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.
- (3) Dielectric Strength:
Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.
- (4) Water:
This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.
- (5) Potting:
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.
- (6) Detergent:
Please consult AiT Semi immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.



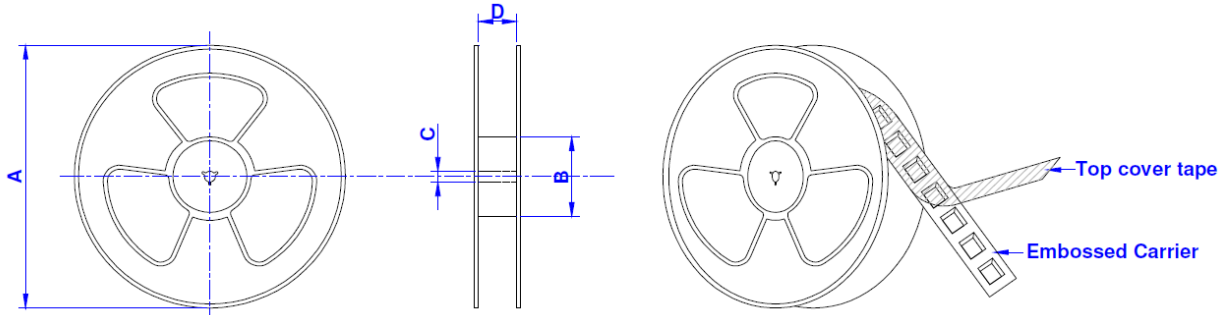
●TAPE DIMENSION: mm



SIZE/mm	W	P	A0	B0	K0	T	F
04020	12.0	8.0	4.70	4.70	2.30	0.35	5.50
04030	12.0	8.0	4.70	4.70	3.30	0.35	5.50
05020	12.0	8.0	6.40	6.10	2.30	0.35	5.50
05030	16.0	8.0	6.40	6.10	3.30	0.35	7.50
05050	16.0	8.0	6.40	6.10	5.30	0.35	7.50
06030	16.0	12.0	7.60	7.30	3.30	0.35	7.50
06040	16.0	12.0	7.60	7.30	4.30	0.35	7.50
06050	16.0	12.0	7.60	7.30	5.30	0.35	7.50
06060	16.0	12.0	7.60	7.30	6.30	0.35	7.50
07020	16.0	12.0	8.80	8.40	2.30	0.35	7.50
07030	16.0	12.0	8.80	8.40	3.30	0.35	7.50
07050	16.0	12.0	8.80	8.40	5.30	0.35	7.50
07070	16.0	12.0	8.80	8.40	7.30	0.35	7.50
08080	24.0	16.0	9.40	8.90	8.50	0.35	7.50
10031	24.0	16.0	12.40	11.50	3.30	0.35	11.50
10060	24.0	16.0	12.40	11.50	6.30	0.35	11.50
10100	24.0	16.0	12.40	11.50	10.30	0.35	11.50
15080	32.0	24.0	18.00	17.00	8.50	0.50	14.20
15100	32.0	24.0	18.00	17.00	10.50	0.50	14.20
15130	32.0	24.0	18.00	17.00	13.60	0.50	14.20



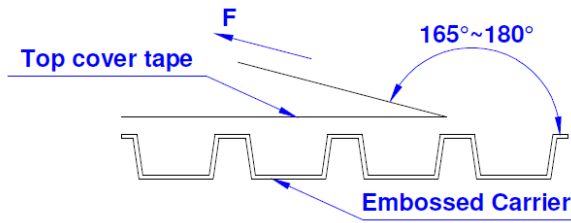
●REEL DIMENSION: mm



SIZE / mm	REEL SIZE	A	B	C	D	QTY/REEL
04020	13" × 12 mm	330	100	13	12.5	3000 PCS
04030	13" × 12 mm	330	100	13	12.5	2000 PCS
05020	13" × 12 mm	330	100	13	12.5	3000 PCS
05030	13" × 16 mm	330	100	13	16.5	2000 PCS
05050	13" × 16 mm	330	100	13	16.5	1500 PCS
06030	13" × 16 mm	330	100	13	16.5	1000 PCS
06040	13" × 16 mm	330	100	13	16.5	800 PCS
06050	13" × 16 mm	330	100	13	16.5	800 PCS
06060	13" × 16 mm	330	100	13	16.5	750 PCS
07020	13" × 16 mm	330	100	13	16.5	2000 PCS
07030	13" × 16 mm	330	100	13	16.5	1500 PCS
07050	13" × 16 mm	330	100	13	16.5	800 PCS
07070	13" × 16 mm	330	100	13	16.5	700 PCS
08080	13" × 24 mm	330	100	13	24.5	450 PCS
10031	13" × 24 mm	330	100	13	24.5	1000 PCS
10060	13" × 24 mm	330	100	13	24.5	500 PCS
10100	13" × 24 mm	330	100	13	24.5	300 PCS
15080	13" × 32 mm	330	100	13	32.5	200 PCS
15100	13" × 32 mm	330	100	13	32.5	150 PCS
15130	13" × 32 mm	330	100	13	32.5	100 PCS



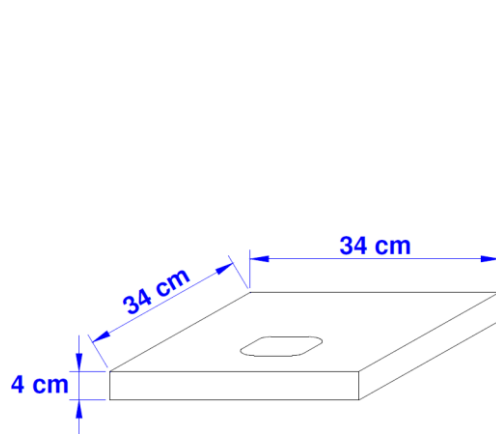
●TEARING OFF FORCE:



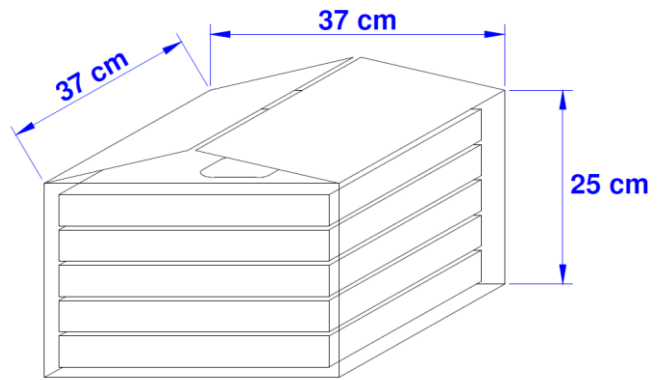
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA - 481 - D - 2008 of 4.11 standard).

Room Temp. (°C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm / min)
5 ~ 35	45 ~ 85	860~1060	300

●BOX PACKAGE: cm



13" Small Box



Large Box

SIZE/mm	Reels in Small Box	Small Box in Large Box
04020	2	5
04030	2	5
05020	1	5
05030	1	5
05050	1	5
06030	1	5
06040	1	5
06050	1	5
06060	1	5
07020	1	5
07030	1	5
07050	1	5
07070	1	5
08080	1	5
10031	1	5
10060	1	5
10100	1	5
15080	1	5
15100	1	5
15130	1	5



IMPORTANT NOTICE

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