•FEATURE

1. Good in EMI and fit for large current application
2. Fit for power line & signal line circuit
3. To help you go pass the CE/FCC standard
4. Operating Temperature: -40 ~ +12050℃
5. Compliant with AEC-Q200

•APPLICATION

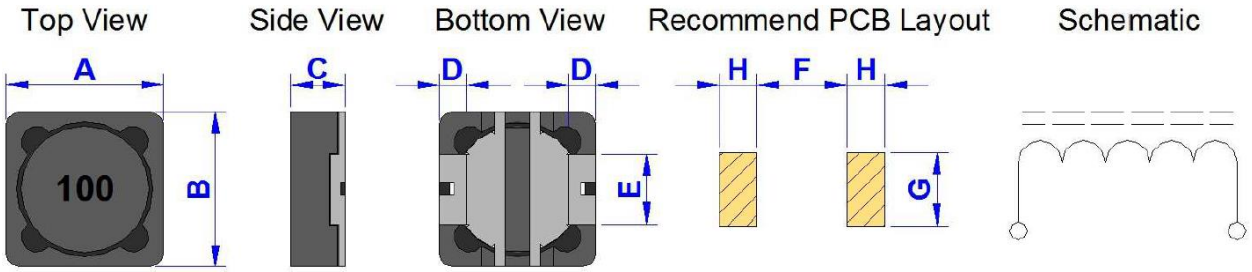
MB, NB, IPC, LCD Monitor, STB, Hub, Switch.

•ORDERING INFORMATION

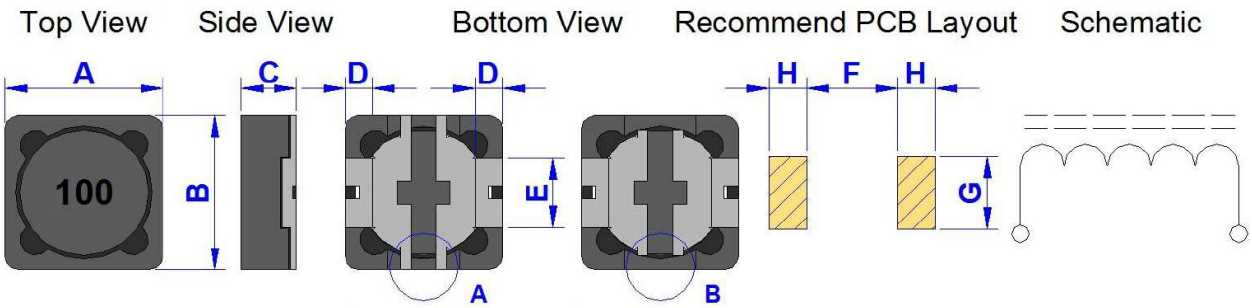
WSR	06020	U	-3R3	T	Q
Series	Dimension (L*W*H)	Material code	Impedance (Ω)	Tolerance M=±20%,Y=±30%	AEC-Q

•SHAPE AND DIMENSION

Type: 06020, 06040, 07035, 07040,



Type: 12040, 12050, 12070, 12090



A vs B different shape.
Does not affect the characteristics and use all acceptable !

●SPECIFICATION

Unit: mm

Type	A	B	C	D	E	F	G	H
06020	6.30±0.50	6.30±0.50	3.00 Max.	0.85±0.30	1.50±0.50	4.20 Ref.	1.90 Ref.	1.25 Ref.
06040	6.30±0.50	6.30±0.50	5.00 Max.	0.85±0.30	1.50±0.50	4.20 Ref.	1.90 Ref.	1.25 Ref.
07035	7.30±0.50	7.30±0.50	3.50 Max.	1.25±0.30	1.98±0.50	4.40 Ref.	2.40 Ref.	1.65 Ref.
07040	7.30±0.50	7.30±0.50	4.50 Max.	1.25±0.30	1.98±0.50	4.40 Ref.	2.40 Ref.	1.65 Ref.
12040	12.00±0.50	12.00±0.50	4.50 Max.	2.20±0.30	5.00±0.50	7.00 Ref.	5.60 Ref.	2.80 Ref.
12050	12.00±0.50	12.00±0.50	6.00 Max.	2.20±0.30	5.00±0.50	7.00 Ref.	5.60 Ref.	2.80 Ref.
12070	12.00±0.50	12.00±0.50	8.00 Max.	2.20±0.30	5.00±0.50	7.00 Ref.	5.60 Ref.	2.80 Ref.
12090	12.00±0.50	12.00±0.50	10.00 Max.	2.20±0.30	5.00±0.50	7.00 Ref.	5.60 Ref.	2.80 Ref.

●ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR06020-3R3M	3.3	68m	1.94
WSR06020-4R7M	4.7	80m	1.63
WSR06020-5R5M	5.5	96m	1.40
WSR06020-100M	10.0	0.15	1.10
WSR06020-120M	12.0	0.20	1.00
WSR06020-150M	15.0	0.23	0.90
WSR06020-180M	18.0	0.27	0.80
WSR06020-220M	22.0	0.34	0.74
WSR06020-270M	27.0	0.38	0.66
WSR06020-330M	33.0	0.45	0.59
WSR06020-390M	39.0	0.49	0.54
WSR06020-470M	47.0	0.69	0.50
WSR06020-560M	56.0	0.78	0.46
WSR06020-680M	68.0	1.07	0.42
WSR06020-820M	82.0	1.21	0.38
WSR06020-101M	100.0	1.39	0.34
WSR06020-121M	120.0	1.90	0.31
WSR06020-151M	150.0	2.18	0.28
WSR06020-181M	180.0	2.77	0.26
WSR06020-221M	220.0	3.12	0.23
WSR06020-271M	270.0	4.38	0.22
WSR06020-331M	330.0	4.94	0.19

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 30% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR06040-3R3M	3.3	30m	2.20
WSR06040-4R7M	4.7	40m	1.80
WSR06040-6R8M	6.8	90m	1.80
WSR06040-100M	10.0	0.12	1.35
WSR06040-120M	12.0	0.13	1.20
WSR06040-150M	15.0	0.18	1.10
WSR06040-180M	18.0	0.24	1.00
WSR06040-220M	22.0	0.27	0.91
WSR06040-270M	27.0	0.30	0.82
WSR06040-330M	33.0	0.33	0.75
WSR06040-390M	39.0	0.37	0.69
WSR06040-470M	47.0	0.52	0.62
WSR06040-560M	56.0	0.56	0.58
WSR06040-680M	68.0	0.63	0.52
WSR06040-820M	82.0	0.71	0.47
WSR06040-101M	100.0	1.03	0.43
WSR06040-121M	120.0	1.15	0.39
WSR06040-151M	150.0	1.68	0.35
WSR06040-181M	180.0	1.87	0.32
WSR06040-221M	220.0	2.08	0.29
WSR06040-271M	270.0	2.37	0.26
WSR06040-331M	330.0	2.67	0.23
WSR06040-391M	390.0	2.94	0.22
WSR06040-471M	470.0	3.93	0.20
WSR06040-561M	560.0	5.43	0.18
WSR06040-681M	680.0	7.32	0.17
WSR06040-821M	820.0	8.24	0.15
WSR06040-102M	1000.0	9.26	0.14

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 30% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR07035-1R0M	1.0	10.3m	7.97
WSR07035-1R5M	1.5	18.0m	3.40
WSR07035-2R2M	2.2	23m	3.20
WSR07035-3R3M	3.3	34m	3.50
WSR07035-100M	10.0	72m	1.68
WSR07035-120M	12.0	98m	1.52
WSR07035-150M	15.0	0.13	1.33
WSR07035-180M	18.0	0.14	1.20
WSR07035-220M	22.0	0.19	1.07
WSR07035-270M	27.0	0.21	0.96
WSR07035-330M	33.0	0.24	0.91
WSR07035-390M	39.0	0.32	0.77
WSR07035-470M	47.0	0.36	0.76
WSR07035-560M	56.0	0.47	0.68
WSR07035-680M	68.0	0.52	0.61
WSR07035-820M	82.0	0.69	0.57
WSR07035-101M	100.0	0.79	0.50
WSR07035-121M	120.0	0.89	0.49
WSR07035-151M	150.0	1.27	0.43
WSR07035-181M	180.0	1.45	0.39
WSR07035-221M	220.0	1.65	0.35
WSR07035-271M	270.0	2.31	0.32
WSR07035-331M	330.0	2.62	0.28
WSR07035-391M	390.0	2.94	0.26
WSR07035-471M	470.0	4.18	0.24
WSR07035-561M	560.0	4.67	0.22
WSR07035-681M	680.0	5.73	0.19
WSR07035-821M	820.0	6.54	0.18
WSR07035-102M	1000.0	9.44	0.16

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 30% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR07040-1R8M	1.8	18m	5.50
WSR07040-2R2M	2.2	24m	4.00
WSR07040-2R7M	2.7	24m	3.00
WSR07040-3R7M	3.3	30m	4.00
WSR07040-4R7M	4.7	44m	2.70
WSR07040-6R8M	6.8	46m	2.40
WSR07040-8R2M	8.2	48m	2.00
WSR07040-100M	10.0	49m	1.84
WSR07040-120M	12.0	58m	1.71
WSR07040-150M	15.0	81m	1.47
WSR07040-180M	18.0	91m	1.31
WSR07040-220M	22.0	0.11	1.23
WSR07040-270M	27.0	0.15	1.12
WSR07040-330M	33.0	0.17	0.96
WSR07040-390M	39.0	0.23	0.91
WSR07040-470M	47.0	0.26	0.88
WSR07040-560M	56.0	0.35	0.75
WSR07040-680M	68.0	0.38	0.69
WSR07040-820M	82.0	0.43	0.61
WSR07040-101M	100.0	0.61	0.60
WSR07040-121M	120.0	0.66	0.52
WSR07040-151M	150.0	0.88	0.46
WSR07040-181M	180.0	0.98	0.42
WSR07040-221M	220.0	1.17	0.36
WSR07040-271M	270.0	1.64	0.34
WSR07040-331M	330.0	1.86	0.32
WSR07040-391M	390.0	2.85	0.29
WSR07040-471M	470.0	3.01	0.26
WSR07040-561M	560.0	3.62	0.23
WSR07040-681M	680.0	4.63	0.22
WSR07040-821M	820.0	5.20	0.20
WSR07040-102M	1000.0	6.00	0.18

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 30% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR12040-2R4M	2.4	14.0m	4.90
WSR12040-3R3M	3.3	15.0m	6.50
WSR12040-3R9M	3.9	15.0m	6.50
WSR12040-4R7M	4.7	18.0m	5.70
WSR12040-6R8M	6.8	23.0m	4.90
WSR12040-8R2M	8.2	26.0m	4.60
WSR12040-100M	10.0	28.0m	4.50
WSR12040-120M	12.0	38.0m	4.00
WSR12040-150M	15.0	50.0m	3.20
WSR12040-180M	18.0	57.0m	3.10
WSR12040-220M	22.0	66.0m	2.90
WSR12040-270M	27.0	80.0m	2.80
WSR12040-330M	33.0	97.0m	2.70
WSR12040-390M	39.0	0.132	2.10
WSR12040-470M	47.0	0.160	1.90
WSR12040-560M	56.0	0.190	1.80
WSR12040-680M	68.0	0.220	1.50
WSR12040-820M	82.0	0.260	1.30
WSR12040-101M	100.0	0.308	1.20
WSR12040-121M	120.0	0.380	1.10
WSR12040-151M	150.0	0.530	0.95
WSR12040-181M	180.0	0.620	0.85
WSR12040-221M	220.0	0.700	0.80
WSR12040-271M	270.0	0.870	0.60
WSR12040-331M	330.0	0.990	0.50

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 25% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR12050-1R0M	1.0	10.0m	9.00
WSR12050-3R3M	3.3	18.0m	7.50
WSR12050-4R7M	4.7	20.0m	7.40
WSR12050-6R8M	6.8	25.0m	4.50
WSR12050-100M	10.0	25.0m	4.00
WSR12050-120M	12.0	27.0m	3.50
WSR12050-150M	15.0	30.0m	3.30
WSR12050-180M	18.0	34.0m	3.00
WSR12050-220M	22.0	36.0m	2.80
WSR12050-270M	27.0	51.0m	2.30
WSR12050-330M	33.0	57.0m	2.10
WSR12050-390M	39.0	68.0m	2.00
WSR12050-470M	47.0	75.0m	1.80
WSR12050-560M	56.0	0.110	1.70
WSR12050-680M	68.0	0.120	1.50
WSR12050-820M	82.0	0.140	1.40
WSR12050-101M	100.0	0.160	1.30
WSR12050-121M	120.0	0.170	1.10
WSR12050-151M	150.0	0.230	1.00
WSR12050-181M	180.0	0.290	0.90
WSR12050-221M	220.0	0.400	0.80
WSR12050-271M	270.0	0.460	0.75
WSR12050-331M	330.0	0.510	0.68
WSR12050-391M	390.0	0.690	0.65
WSR12050-471M	470.0	0.770	0.58
WSR12050-561M	560.0	0.860	0.54
WSR12050-681M	680.0	1.200	0.48
WSR12050-821M	820.0	1.340	0.43
WSR12050-102M	1000.0	1.530	0.40

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 25% Max. & Temp. rise up 40℃ Max.

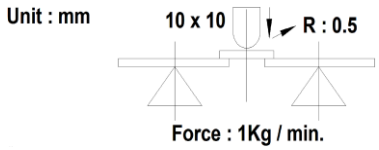
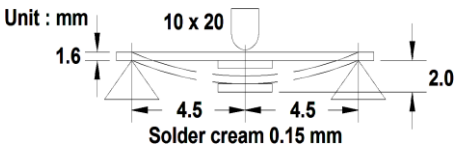
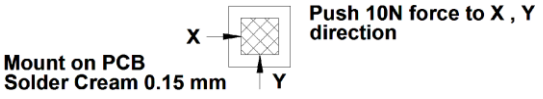
Part Number	Inductance (uH)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR12070-1R5M	1.5	7.0m	9.80
WSR12070-2R2M	2.2	11.5m	8.00
WSR12070-2R2M	2.4	11.5m	8.00
WSR12070-3R3M	3.3	13.5m	7.50
WSR12070-3R5M	3.5	13.5m	7.50
WSR12070-4R7M	4.7	15.8m	6.80
WSR12070-6R1M	6.1	17.6m	6.60
WSR12070-6R8M	6.8	19.0m	6.60
WSR12070-7R6M	7.6	20.0m	5.90
WSR12070-8R2M	8.2	20.0m	5.60
WSR12070-100M	10.0	21.6m	5.40
WSR12070-120M	12.0	24.3m	4.90
WSR12070-150M	15.0	27.0m	4.50
WSR12070-180M	18.0	39.2m	3.90
WSR12070-220M	22.0	43.2m	3.60
WSR12070-270M	27.0	45.9m	3.40
WSR12070-330M	33.0	64.8m	3.00
WSR12070-390M	39.0	72.9m	2.75
WSR12070-470M	47.0	0.100	2.50
WSR12070-560M	56.0	0.110	2.35
WSR12070-680M	68.0	0.140	2.10
WSR12070-820M	82.0	0.160	1.95
WSR12070-101M	100.0	0.220	1.70
WSR12070-121M	120.0	0.250	1.60
WSR12070-151M	150.0	0.280	1.42
WSR12070-181M	180.0	0.350	1.30
WSR12070-221M	220.0	0.390	1.16
WSR12070-271M	270.0	0.560	1.06
WSR12070-331M	330.0	0.640	0.95
WSR12070-391M	390.0	0.700	0.88
WSR12070-471M	470.0	0.980	0.79
WSR12070-561M	560.0	1.070	0.73
WSR12070-681M	680.0	1.460	0.67
WSR12070-821M	820.0	1.640	0.60
WSR12070-102M	1000.0	1.820	0.55

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* M=Tolerance=±20%
* D.C. Current: Base on L drop 25% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	Permissible DC Current (Amp) (Max.)
WSR12090-1R0T	1.0	Y	5.0m	16.00
WSR12090-1R5T	1.5	M	5.0m	15.10
WSR12090-2R2T	2.2	M	6.0m	13.20
WSR12090-3R3T	3.3	M	7.0m	11.90
WSR12090-4R7T	4.7	Y	8.0m	10.80
WSR12090-5R6T	5.6	M	10.0m	9.60
WSR12090-6R8T	6.8	M	12.0m	8.70
WSR12090-100T	10.0	M	17.0m	8.00
WSR12090-150T	15.0	M	28.0m	7.00
WSR12090-220T	22.0	M	32.0m	5.60
WSR12090-330T	33.0	M	51.0m	4.80
WSR12090-470T	47.0	M	78.0m	3.90
WSR12090-680T	68.0	M	0.105	2.70
WSR12090-820T	82.0	M	0.110	2.50
WSR12090-101T	100.0	M	0.150	2.10
WSR12090-181T	180.0	M	0.210	1.80
WSR12090-102T	1000.0	M	1.000	0.80
WSR12090-552T	5500.0	M	6.45	0.45

* Measuring Freq.(L): 1.0~8.2 uH (100KHz / 0.3V), 10~820uH (1kHz / 0.3V).
* T=Tolerance: M=±20%, Y=±30%
* D.C. Current: Base on L drop 25% Max. & Temp. rise up 40℃ Max.

●RELIABILITY

<table>
<tr><th>Test Item</th><th>Test Condition</th><th>Specification</th></tr>
<tr><td>Dimension</td><td>Actual Size ...</td><td>Meet Spec</td></tr>
<tr><td>Thermal Shock
(Temperature Cycle)</td><td>Temperature: -40 ~ +12050℃ kept stabilized for 30 min. each
Cycle: 100 Cycles (power off)</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Humidity Resistance</td><td>Humidity: 90% ~ 95% RH
Temperature: 60 ± 2℃ Test Time: 96 ± 2 Hours</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>High Temperature</td><td>Temperature: 12050 ± 2℃
Testing Time: 96 ± 2 Hours</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Low Temperature</td><td>Temperature: -40 ± 2℃
Time: 96 ± 2 Hours</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Temperature and
Humidity Cycle</td><td><table><tr><th>Temperature</th><th>Humidity</th><th>Time</th></tr><tr><td>25℃</td><td>90% ~ 95% RH</td><td>3.0 Hr</td></tr><tr><td>55℃</td><td>95% ~ 96% RH</td><td>5.0 Hr</td></tr><tr><td>25℃</td><td>90% ~ 95% RH</td><td>3.0 Hr</td></tr></table>Cycle: 20 Cycles</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Vibration</td><td>Frequency: 10Hz ~ 55Hz , Amplitude: 1.5 mm
Direction: X, Y, Z, Time: 2 Hours each</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Solderability</td><td>Go through real SMT IR-Reflow ....
The profile like our suggest profile.
Preheat: 160 ± 10℃ (90 sec)
Peak: 245 ± 5℃
Peak Time: 50 Sec. / up 217℃</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Soldering Heat
Resistance</td><td>Preheat: 160 ± 10℃ (90 sec)
Solder: Sn / Ag / Cu (Pb Free)
Solder Temp.: 260 ± 5℃, Time: 3 ± 1 seconds</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Iron Solder Heat
Resistance</td><td>Solder Temp.: 350 ± 5℃
Flux: Rosin, Time: 3 ± 1 seconds</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Bending Strength</td><td> 
</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Flexure Strength</td><td> 
</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Terminal Strength</td><td> 
</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>High-Voltage</td><td>100 V DC between core & winding</td><td>Elec. no variation
Appearance no deformation</td></tr>
<tr><td>Load life</td><td>Temperature: 25 ± 3℃
Load: Allowed DC Current, Test Time: 96 ± 2 Hours</td><td>Elec. no variation
Appearance no deformation</td></tr>
</table>

•TEST EQUIPMENT

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

•OPERATING & STORAGE CONDITION

1. Operating Temp: -40 ~ +12050℃ (Including self - temperature rise)
2. Storage Temp: a. Product with Taping: -10 ~ 45℃, 50 ~ 60% RH
   b. On Board: -40 ~ +12050℃
3. Storage Life Time: 6 Month (Less than 40℃ and 60% RH)

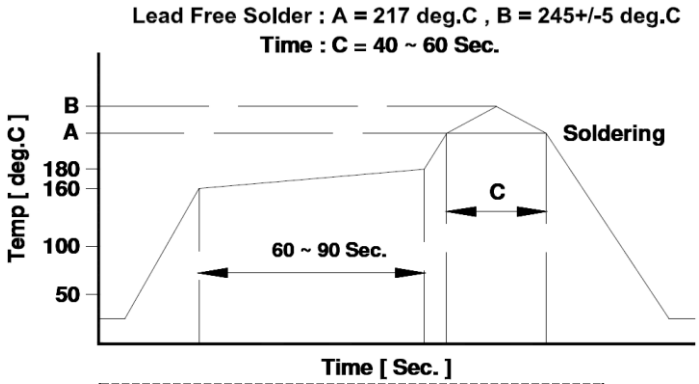
Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15℃; 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℃; Humidity RH 75 ± 10%

•RECOMMEND REFLOW CURVE (TIME: Second)



Notice: Iron Soldering, Solder < 30 Watt,
Direct touch the terminal x 3 Sec. Max. @ 350℃

•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℃ 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℃, Humidity 45 to 60% RH

(2) Use Temperature:
a. Minimum Temperature: -40℃ Ambient temperature of this product.
b. Maximum Temperature: +12050℃ The value of temperature including ambient and temperature rise of this product.
c. Reliability test temperature range from -40 ~ +12050℃
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.

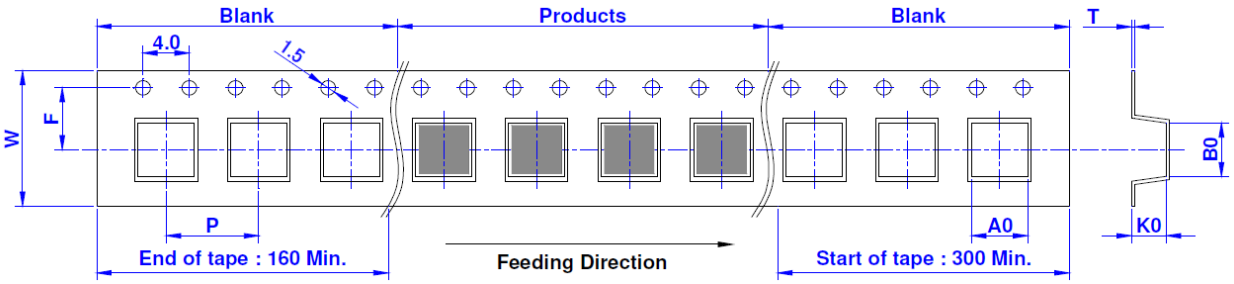
(3) Dielectric Strength:
Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(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.

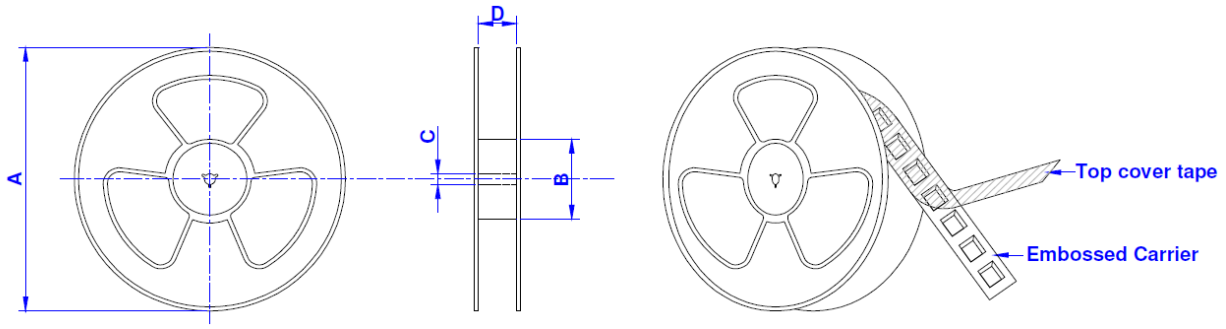
(6) Detergent:
Please consult AiT Semi immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.

•TAPE DIMENSION: mm



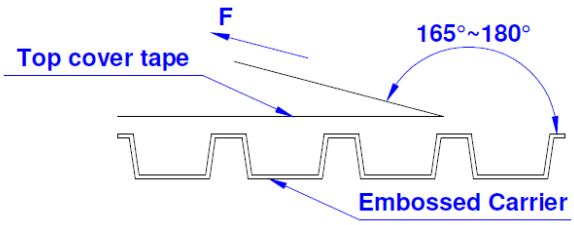
SIZE/mm	W	P	A0	B0	K0	T	F
06020	16.00	12.00	7.30	7.30	3.50	0.25	6.00
06040	16.00	12.00	7.30	7.30	5.00	0.25	6.00
07035	16.00	12.00	8.20	8.20	4.20	0.25	6.00
07040	16.00	12.00	8.20	8.20	5.00	0.25	6.00
12040	24.00	16.00	13.20	13.20	4.80	0.35	6.50
12050	24.00	16.00	13.20	13.20	6.80	0.35	6.50
12070	24.00	16.00	13.20	13.20	6.80	0.35	6.50
12090	24.00	16.00	13.20	13.20	10.20	0.35	6.50

•REEL DIMENSION: mm



SIZE / mm	REEL SIZE	A	B	C	D	QTY/REEL
06020	13" x 16 mm	330	100	13	16.5	2000 PCS
06040	13" x 16 mm	330	100	13	16.5	2000 PCS
07035	13" x 16 mm	330	100	13	16.5	1000 PCS
07040	13" x 16 mm	330	100	13	16.5	1000 PCS
12040	13" x 24 mm	330	100	13	24.5	750 PCS
12050	13" x 24 mm	330	100	13	24.5	500 PCS
12070	13" x 24 mm	330	100	13	24.5	500 PCS
12090	13" x 24 mm	330	100	13	24.5	350 PCS

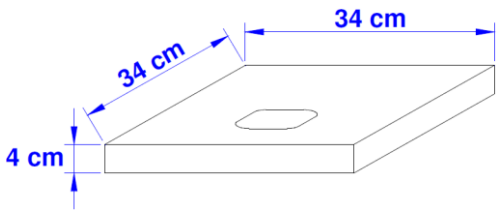
•TEARING OFF FORCE:



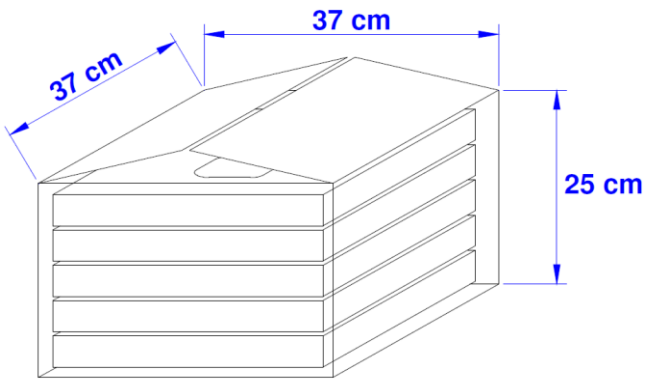
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA - 481 - D - 2008 of 4.11stadnard).

Room Temp. (℃)	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
06020	1	5
06040	1	5
07035	1	5
07040	1	5
12040	1	5
12050	1	5
12070	1	5
12090	1	5

IMPORTANT NOTICE

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