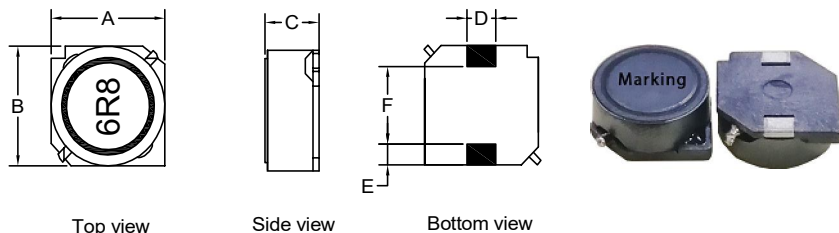


P/N: FASDRH6025-6R8N1R3

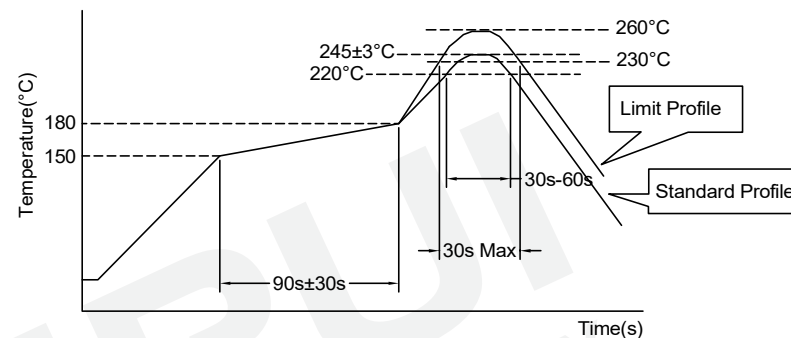


Outline Dimensions(Unit:mm)

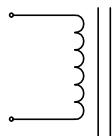


| A | B | C | D | E | F |
|-------|-------|-------|------|------|------|
| ±0.30 | ±0.30 | ±0.30 | REF | REF | REF |
| 6.00 | 6.00 | 2.50 | 2.00 | 1.50 | 3.00 |

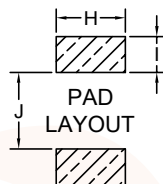
Recommended Soldering Temperature Graph.



Electronical Schematic



Suggested Pad layout



| | |
|---|----------|
| H | 2.20 REF |
| I | 2.15 REF |
| J | 2.70 REF |

| | Standard Profile | Standard Profile |
|------------------|---------------------|---------------------|
| Pre-heating | 150~180°C,90s±30s | |
| Heating | above 220°C,30s-60s | above 240°C,30s Max |
| Peak temperature | 245°C±3°C | 260°C,10s |
| Cycle of reflow | 2 times | 2 times |

Electrical Characteristics(@25°C)

| Inductance 100KHz,0.25V | DC Resistor | Isat (A Max) | Irms (A)ΔT≤40°C |
|----------------------------|-------------|------------------|--------------------|
| 6.80uH±30% | 57.4mΩ Max | L(1.30A)≥65%*L0A | 1.50A |

***Operating Temperature: -40°C~+125°C
(Temperature rise included)

***Storage Temperature: -40°C~+125°C

***Storage Humidity:RH10%~70%

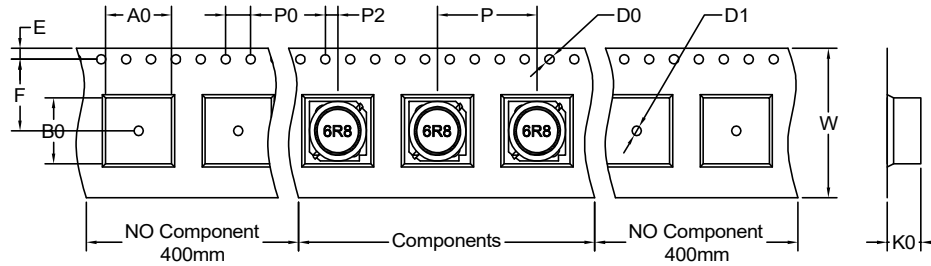
***Weight:Approx 0.29g.

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|-----|-------------|------|------|---|---|---|--|--|
| REV | DESCRIPTION | APPD | DATE | | | | | |

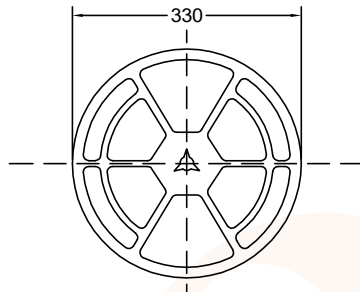
P/N: FASDRH6025-6R8N1R3

RoHS

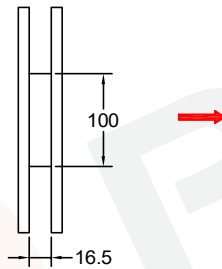
Packing Specifications(Unit:mm):



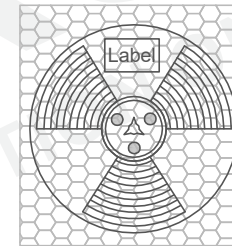
| | | | |
|----|------|----|------|
| A0 | 6.50 | F | 7.50 |
| B0 | 6.50 | D0 | 1.50 |
| P | 12.0 | D1 | 1.50 |
| P0 | 4.00 | K0 | 3.40 |
| P2 | 2.00 | W | 16.0 |
| E | 1.75 | | |



Quantity: 1000pcs/Reel



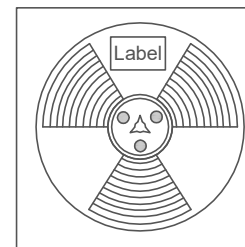
Quantity: 1000pcs



PE bag



Outer cases: 8000pcs/box
Insufficient boxes filled with inner boxes or fillers



Inner box
Quantity: 4000 pcs/box

| | | | |
|-----|-------------|------|------|
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|-----|-------------|------|------|

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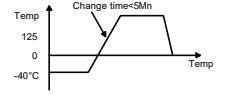
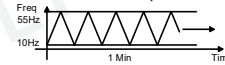
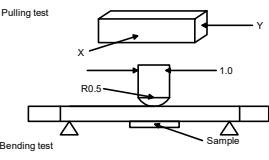
DRAWING TITLE
SMD SHIELDED
POWER INDUCTORS
Material Number: A346025HS030

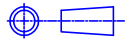
Customer Name:
Document/Rev: 00
Specification Sheet: 2 of 4
Date of Recognition: Mar./31/2020



Reliability Testing:

| Ltem | Specified value | Test methods |
|---|---|--|
| High temperature Storage test Reference documents: MIL-STD-202G Method 108A | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. | Temperature: $85 \pm 2^\circ\text{C}$ Time: 96 ± 2 hours. Tested not less than 1 hour, not more than 2 hours at room temperature.  |
| Low temperature Storage test. Referencedocuments: IEC 68-2-1A 6.1 6.2 | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. | Temperature: $25 \pm 2^\circ\text{C}$ Time: 96 ± 2 hours. Tested not less than 1 hour, not more than 2 hours at room temperature.  |
| Humidity test Reference Documents: MIL-STD-202G Method 103B | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. | 1.Dry oven at a temperature of $40 \pm 5^\circ\text{C}$ for 24 hours. 2.Measurements At the end of this period 3.Exposure: Temperature: $40 \pm 2^\circ\text{C}$, Humidity: $93 \pm 3\% \text{RH}$ Time: 96 ± 2 hours. 4.Tested while the specimens are still in the chamber. 5.Tested not less than 1 hour, nor more than 2 hours at room temperature.  |
| Heat endurance of Reflow soldering | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. | Preheat: 150°C , 60 second. Solder: Sn/Ag/Cu. Solder: Temperature: $260 \pm 5^\circ\text{C}$. Flux: Rosin flux. Reflow peak time 10 second at 260°C  |

| Ltem | Specified value | Test methods |
|--|--|--|
| Thermal shock test Reference documents: MIL-STD-202G Method 107G | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. For T: $\text{weight} \leq 28\text{g}$: 15 Min $28\text{g} \leq \text{weight} \leq 136\text{g}$: 30 Min | First- 40°C for T time, next+ 125°C T time as 1 cycle. Go through 20 cycles.  |
| Solderability test Reference documents: MIL-STD-202G Method 208H IPC J-STD-002B | Terminals area must have 95% Min. Solder coverage. | Dip pads in flux then dip in solder pot at $245 \pm 5^\circ\text{C}$ for 5 second. Soler: Sn(93.5)Ag(3.5). Flux: Rosin flux. |
| Vibration test Reference documents: MIL-STD-202G Method 201A | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. | Apply frequency 10~55Hz. 0.75mm amplitude in each of perpendicular direction for 2 hours.(total 6 hours).  |
| Drop test Reference documents: MIL-STD-202G Method 203G | 1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$. 3. $\Delta Q/Q \leq 30\%$. 4. $\Delta DCR/DCR \leq 10\%$. For T: $\text{weight} \leq 28\text{g}$: 15 Min $28\text{g} \leq \text{weight} \leq 136\text{g}$: 30 Min | Packaged & Drop down from 1m with 981m/s^2 (100G) attitude in 1 angle 1 ridges & 2 surfaces orientations. |
| Terminal strength push test Reference documents: JIS C 5321:1997 | Pulling test: DEFINE: A: sectional area of terminal $A \leq 8(\text{Sq M})$ Force $\geq 5\text{N}$ time: 30sec $8(\text{Sq M}) < A \leq 20(\text{Sq M})$ Force $\geq 10\text{N}$ time: 10sec $20(\text{Sq M}) < A$ force $\geq 20\text{N}$ time: 10sec Bending test: Soldering the products on PCB, after the pulling testand bending test, terminal should not pull off | Bend the testing PCB at middle point, the deflection shall be 2mm  |

| | | | | | | | | |
|-----|-------------|------|------|---|--|---|--|--|
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|-----|-------------|------|------|---|--|---|--|--|



| Ltem | Specified value | Test methods |
|--|---|--|
| Resistance to solvent test Reference documents: IEC 68-2-45:1993 | No case deformation or change in appearance, or obliteration of marking | To dip parts into IPA solvent for 5±0.5Min, then drying them at room temp for 5 Min, at last, to brushing making 10 times. |
| Electronic characteristic test of major products | Refer to catalogue of specific products | Refer to catalogue of specific products |
| Overload test Reference documents: | 1. During the test no smoke, no peculiar, smell, no fire | Apply twice as rated current for 5 minutes. |

Recommended solderability temperature profile:



Use rosin-based flux
Don't use high acidic flux with halide content exceeding 0.2(wt)% (chlorine conversion value).
Use lead-free solder, use Sn-3.0Ag-0.5Cu solder
Standard thickness of solder paste: 0.12-0.15mm

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|-----|-------------|------|------|---|---|---|--|--|
| REV | DESCRIPTION | APPD | DATE | | | | | |