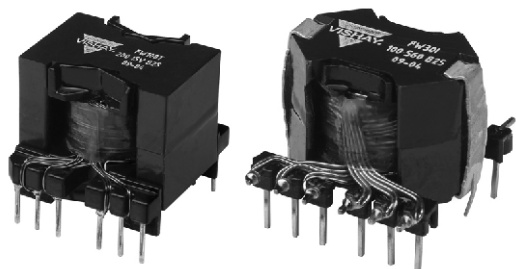


## Transformer and Inductor for Military and Aeronautic Forward Power Supplies



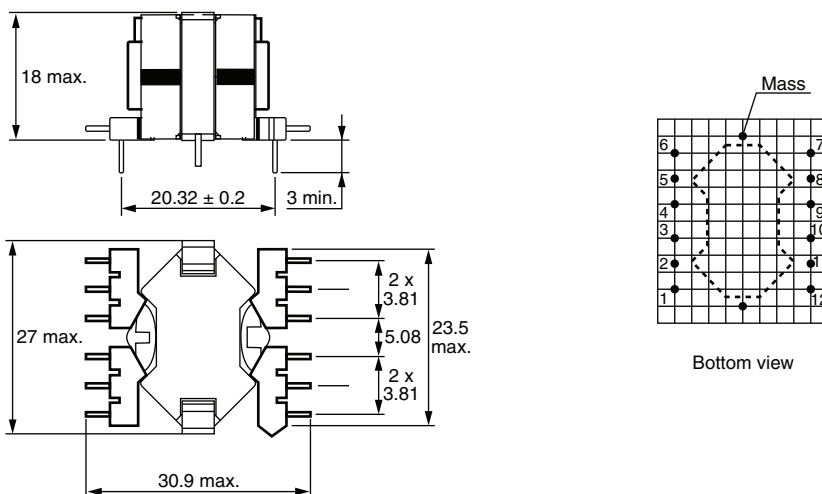
### FEATURES

- Design for aeronautics and military power supply applications
- Frequency: 100 kHz to 200 kHz
- Power: 30 W to 100 W
- Efficiency > 95 %
- UL 94 V-0 material
- Operating temperature: - 55 °C to + 125 °C
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

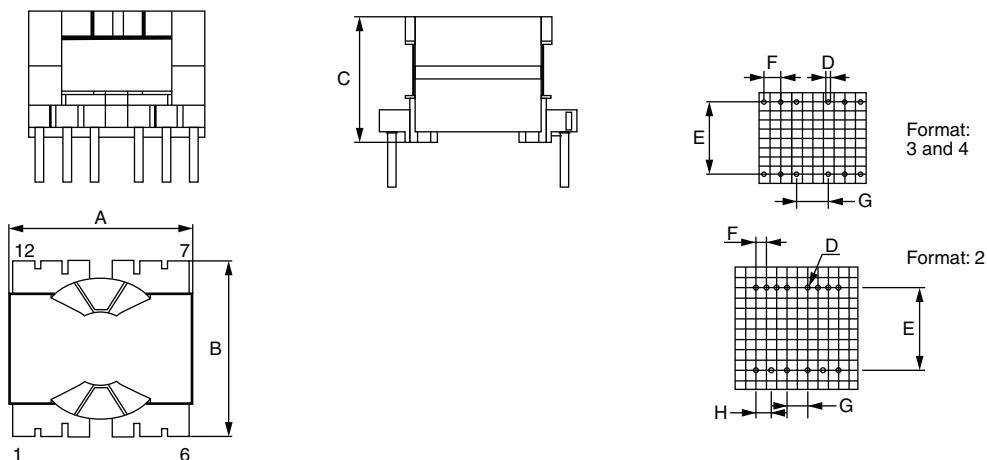

**RoHS**  
COMPLIANT

### DIMENSIONS in millimeters ( $\pm 0.2$ mm)

#### Format: RM8



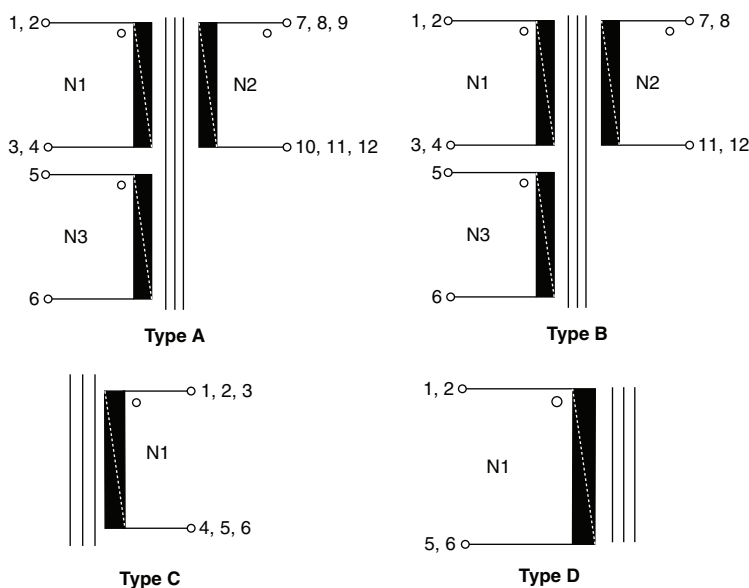
#### Format: PQ



| FORMAT     | A       | B       | C       | D    | E    | F    | G   | H   |
|------------|---------|---------|---------|------|------|------|-----|-----|
| PQ 20 x 16 | 25 max. | 25 max. | 21 max. | 0.6  | 20.3 | 2.54 | 5   | 3.8 |
| PQ 26 x 20 | 28 max. | 30 max. | 24 max. | 0.65 | 25.4 | 3.8  | 7.6 | -   |
| PQ 26 x 25 | 28 max. | 30 max. | 29 max. | 0.65 | 25.4 | 3.8  | 7.6 | -   |

**ELECTRICAL CHARACTERISTICS** at 25 °C

| PART NUMBER     | FORMAT     | TYPE | RATIO N1/N2 | INDUCTANCE (μH) | POWER | FREQUENCY | FORWARD APPLICATIONS                                                             |
|-----------------|------------|------|-------------|-----------------|-------|-----------|----------------------------------------------------------------------------------|
| FW30T1003V3B25  | RM8        | A    | 1/0.6       | 380             | 30 W  | 100 kHz   | Input: 14 V <sub>DC</sub> to 40 V <sub>DC</sub> ,<br>Output: 3.3 V <sub>DC</sub> |
| FW30I100500B25  | RM8        | C    | -           | 50              |       |           |                                                                                  |
| FW30T1005VB25   | RM8        | A    | 1/0.8       | 380             | 30 W  | 100 kHz   | Input: 14 V <sub>DC</sub> to 40 V <sub>DC</sub> ,<br>Output: 5 V <sub>DC</sub>   |
| FW30I100560B25  | RM8        | C    | -           | 56              |       |           |                                                                                  |
| FW30T10015VB25  | RM8        | B    | 1/2.3       | 380             | 30 W  | 100 kHz   | Input: 14 V <sub>DC</sub> to 40 V <sub>DC</sub> ,<br>Output: 15 V <sub>DC</sub>  |
| FW30I100491B25  | RM8        | D    | -           | 490             |       |           |                                                                                  |
| FW100T10015VB25 | PQ 26 x 25 | A    | 1/1.4       | 340             | 100 W | 100 kHz   | Input: 24 V <sub>DC</sub> to 72 V <sub>DC</sub> ,<br>Output: 15 V <sub>DC</sub>  |
| FW100I100151B25 | PQ 26 x 25 | C    | -           | 150             |       |           |                                                                                  |
| FW30T20015VB25  | PQ 20 x 16 | B    | 1/2.4       | 230             | 30 W  | 200 kHz   | Input: 14 V <sub>DC</sub> to 40 V <sub>DC</sub> ,<br>Output: 15 V <sub>DC</sub>  |
| FW30I200231B25  | PQ 20 x 16 | D    | -           | 230             |       |           |                                                                                  |
| FW100T20015VB25 | PQ 26 x 20 | A    | 1/1.3       | 220             | 100 W | 200 kHz   | Input: 24 V <sub>DC</sub> to 72 V <sub>DC</sub> ,<br>Output: 15 V <sub>DC</sub>  |
| FW100I200900B25 | PQ 26 x 20 | C    | -           | 90              |       |           |                                                                                  |


**ENVIRONMENTAL SPECIFICATIONS**

|                       |                   |
|-----------------------|-------------------|
| Temperature Range     | - 55 °C to 155 °C |
| Operating Temperature | - 55 °C to 125 °C |
| Climatic Category     | 55/155/56         |

**MARKING**

- Vishay trademark
- Part number
- Manufacturing date

**TERMINALS FINISH**

- e2 = SnCu alloy



**SAP ORDERING INFORMATION** (part number 18 digits)

|                              |   |                                       |   |   |   |                                |   |   |                                                                                                    |   |   |                      |  |  |                                                               |  |  |
|------------------------------|---|---------------------------------------|---|---|---|--------------------------------|---|---|----------------------------------------------------------------------------------------------------|---|---|----------------------|--|--|---------------------------------------------------------------|--|--|
| F                            | W | 1                                     | 0 | 0 | T | 2                              | 0 | 0 | 1                                                                                                  | 5 | V |                      |  |  |                                                               |  |  |
| MODEL                        |   | STYLE                                 |   |   |   | FREQUENCY                      |   |   | VALUE                                                                                              |   |   | PACKAGING            |  |  | SPECIAL NUMBER                                                |  |  |
| FW30 = 30 W<br>FW100 = 100 W |   | T = Transformer<br>I = Choke inductor |   |   |   | 100 = 100 kHz<br>200 = 200 kHz |   |   | Transformer:<br>Output value<br>3.3 V, 5 V or 15 V<br>Inductor:<br>Inductance value<br>500 = 50 µH |   |   | B25 = Box, 50 pieces |  |  | (if applicable)<br>Given by<br>Vishay<br>for custom<br>design |  |  |

**PART NUMBER DESCRIPTION** (for information only)

|       |       |        |      |           |       |           |         |                |
|-------|-------|--------|------|-----------|-------|-----------|---------|----------------|
| FW100 | T     | PQ     | A    | 200       | 15 V  | BO50      |         | e2             |
| MODEL | STYLE | FORMAT | TYPE | FREQUENCY | VALUE | PACKAGING | SPECIAL | LEAD (Pb)-FREE |



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## Material Category Policy

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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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