



HVFB SERIES

HIGH VOLTAGE FLYBACK TRANSFORMERS



COTS+

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +130°C
- **Storage Temperature:** -60°C to +135°C
- **Dielectric Withstanding Voltage:** 1500 V_{RMS} ⁽⁴⁾
- **Different electrical values available upon request**
- **Turns Ratio:** 1 : 8

FEATURES

- **Compact**, low profile, ideal for automatic placement
- **Terminations:** Tin-lead over Phosphor-Bronze
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Other termination finishes available**
- **Ratios and ratings customized to your request**

APPLICATIONS

- **High Voltage Pulse**
- **Flyback**
- **Trigger Circuits**

Vanguard P/N	Primary Inductance (uH) ⁽¹⁾	Leakage Inductance max (uH) ⁽¹⁾	Peak Isat (A) ⁽²⁾	Primary DCR max (Ohms) ⁽³⁾	Secondary DCR max (Ohms) ⁽³⁾
†HVFB1001	25 ±15%	2	2.0	1.45	35
†HVFB1002	28 ±15%	2	1.8	1.45	35
HVFB1003	45 ±15%	2	1.2	1.45	35
HVFB1004	75 ±15%	2	0.7	1.45	35
HVFB1005	12 ±15%	1	2.5	0.5	20
HVFB1006	29 ±15%	1	1.5	1.0	25
HVFB1007	48 ±15%	1	0.9	1.0	25
††HVFB1008	5 ±15%	1	0.23	.05	1.0

(1) Inductance measured at 10 kHz, 0.1 V, 0 Adc. **For 10% tolerance add -K suffix**

(2) Inductance drop at Isat <5% and falls off sharply with additional current

(3) Measured @ 25°C

(4) Designed for a single / short pulse; tested for 1 second, 60Hz. Typical life 100 repetitive cycles.

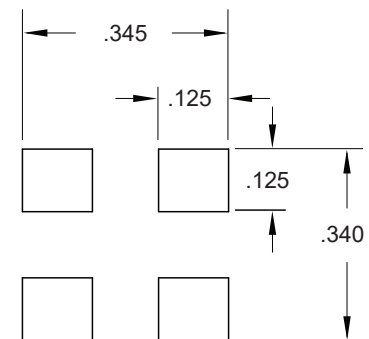
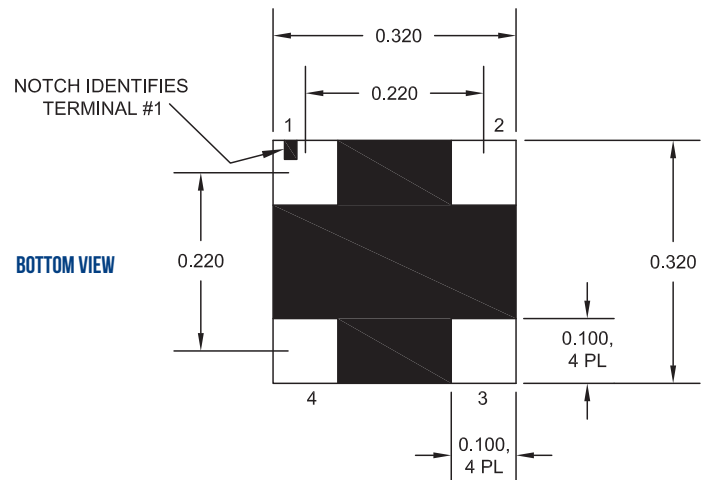
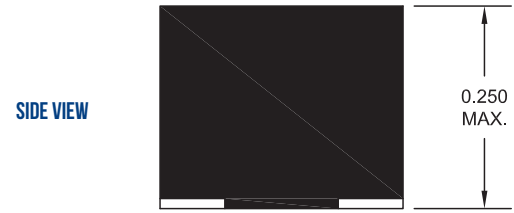
† Not recommended for new designs

†† Ratio 1:7

For tape and reel add -T suffix

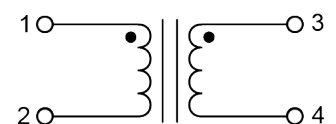
CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types



RECOMMENDED PAD LAYOUT

SCHEMATIC



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