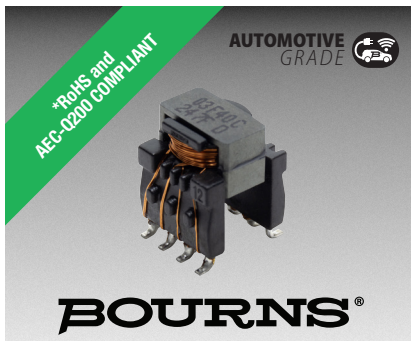




Features

- 3 Watt flyback transformer
- 100 to 400 kHz switching frequency
- 900 V working voltage up to 5000 m
- SMT transformer with 10 mm creepage
- Basic insulation per IEC 61558-2 & IEC 60664-1
- Operating temperature: -40 °C to +155 °C
- AEC-Q200 compliant & automotive grade

Applications

- Transistor gate drive power
- Inverter circuits
- Battery Management Systems
- Motor drives
- Power delivery

HVMA03F40C-ST10S Flyback Transformer

General Specifications

Operating Temperature (including self-temperature rise)	-40 °C to +155 °C
Level of Insulation.....	Basic Insulation
Creepage Distance (Primary to Secondary)	10 mm min.
Clearance Distance (Primary to Secondary)	6 mm min.
Storage Temperature	-40 °C to +85 °C
Moisture Sensitivity Level	1

Additional Information

Click these links for more information:

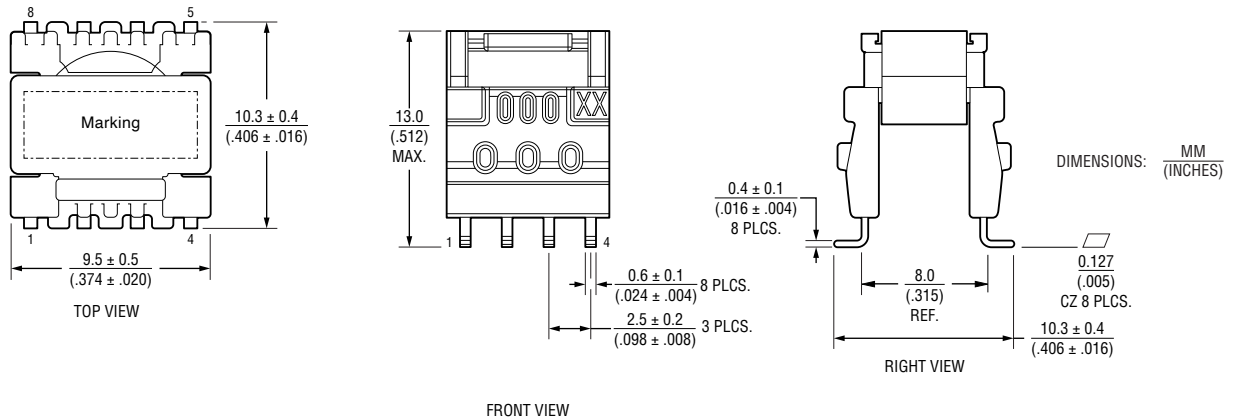


Electrical Specifications @ 25 °C

Bourns Part Number	Primary Inductance @ 100 kHz / 1 V ±15 % (μH)		Leakage Inductance ¹ (μH)		Turns Ratio		DCR max. (Ω)		Hi-Pot: 2 sec. / 1 mA	Working Voltage
HVMA03F40C-ST10S	(1-2)	40	(1-2)	1.1 μH max.	(1-2) : (3-4) : (6-7)	1 : 1 : 1	(1-2)	1.0	4000 VAC	900
							(3-4)	1.4		
							(6-7)	1.0		

NOTE: (1) Leakage inductance measured (1-2), shorted all other pins @ 100 kHz, 1 V.

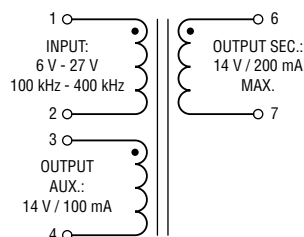
Product Dimensions



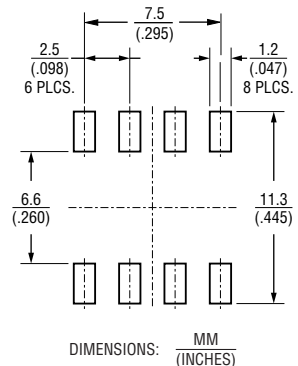
Materials

Bobbin	Phenolic
Wire	Fully Insulated Copper
Core	Ferrite
Glue	Epoxy

Electrical Schematic



Recommended Layout



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.

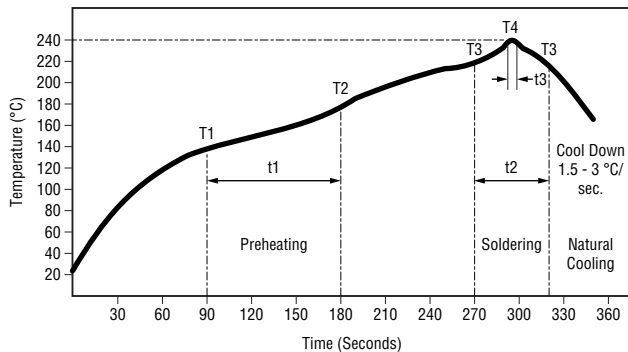
Users should verify actual device performance in their specific applications.

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HVMA03F40C-ST10S Flyback Transformer

BOURNS®

Lead-Free Soldering Profile



Preheating			Soldering		Peak	
Temp.	Time		Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
140 °C	180 °C	60-120 sec.	220 °C	40-70 sec.	240-250 °C	5 sec.

How to Order

HVM A 03 F 40 C - ST 10 S

Model _____
HVM = Flyback Transformer
Compliance _____
A = Automotive Grade
Power Rating _____
03 = 3 W
Topology Type _____
F = Flyback
Inductance Value _____
40 = 40 μ H
Series _____
Size Profile _____
ST = Standard ER9.5
Creepage _____
10 = 10 mm min.
PCB Type _____
S = SMD

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

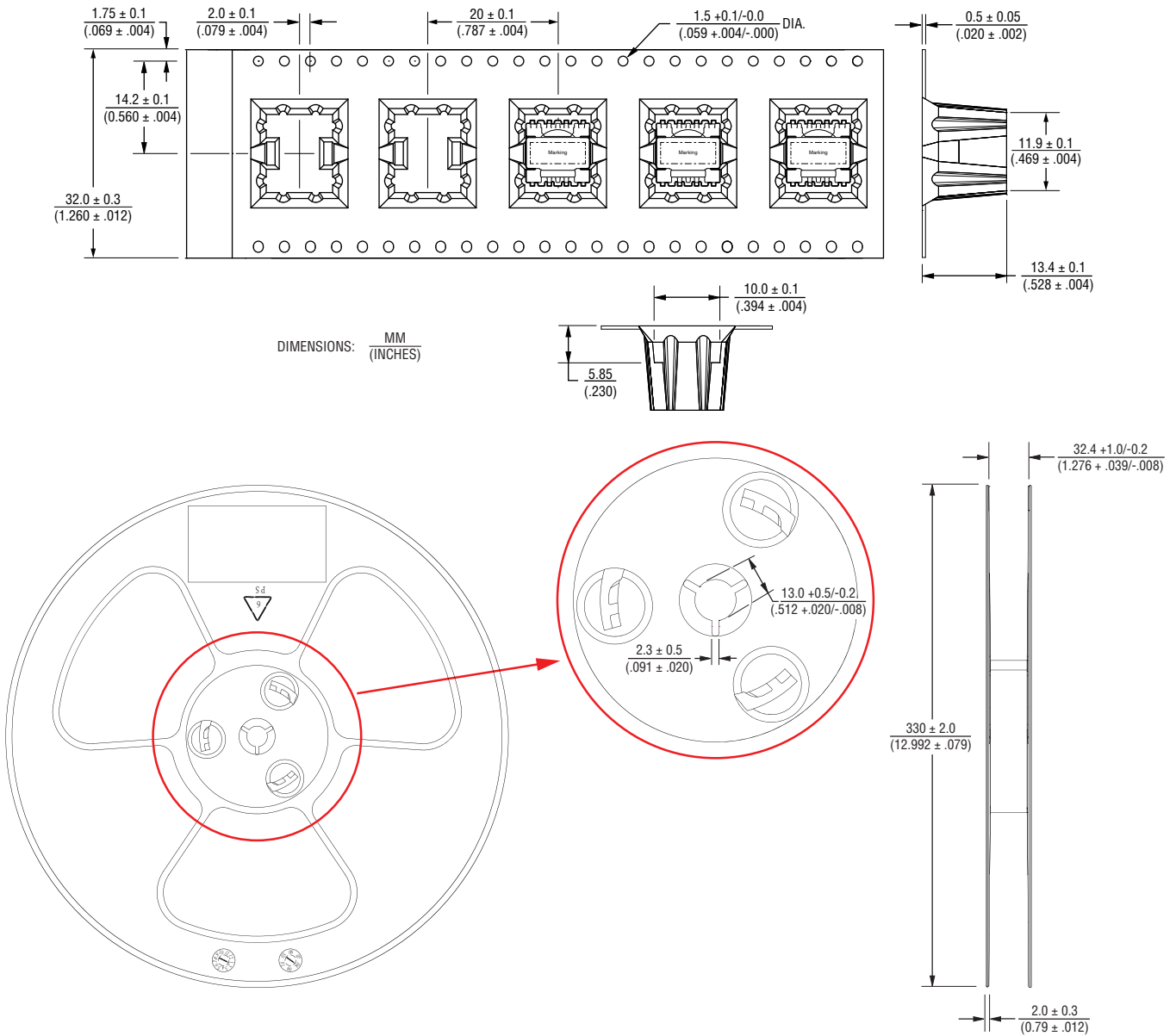
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HVMA03F40C-ST10S Flyback Transformer

BOURNS®

Packaging Specifications

HVMA03F40C-ST10S: 230 pcs./reel, 5 reels/carton



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