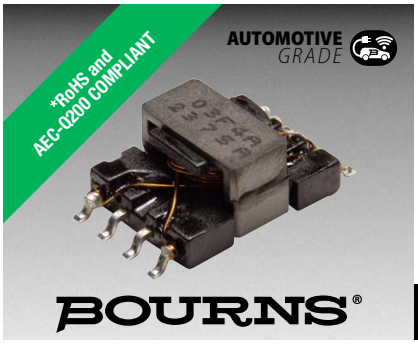


Features

- 2 watt gate driver transformer
- Switching frequencies 400 kHz
- High working voltage of 800 V
- Surface mount with 8 mm min. creepage
- Basic insulation per IEC 60664-1
- Operating temperature: -40 °C to +125 °C
- AEC-Q200 compliant & automotive grade

Applications

- Transistor gate drive power
- Inverter circuits
- Battery management systems
- Motor drives
- Power delivery

HVMA03F4A-LP8S Series – ER9.5 Gate Driver Transformer

General Specifications

Operating Temp. ..... -40 °C to +125 °C
(including self-temperature rise)
Working Voltage ..... 800 V
Level of Insulation ..... Basic
Creepage Distance (Primary to Secondary) ..... 8 mm
Clearance Distance (Primary to Secondary) ..... 2 mm min.
Storage Temp ..... -40 °C to +85 °C
Moisture Sensitivity Level 1

Additional Information

Click these links for more information:

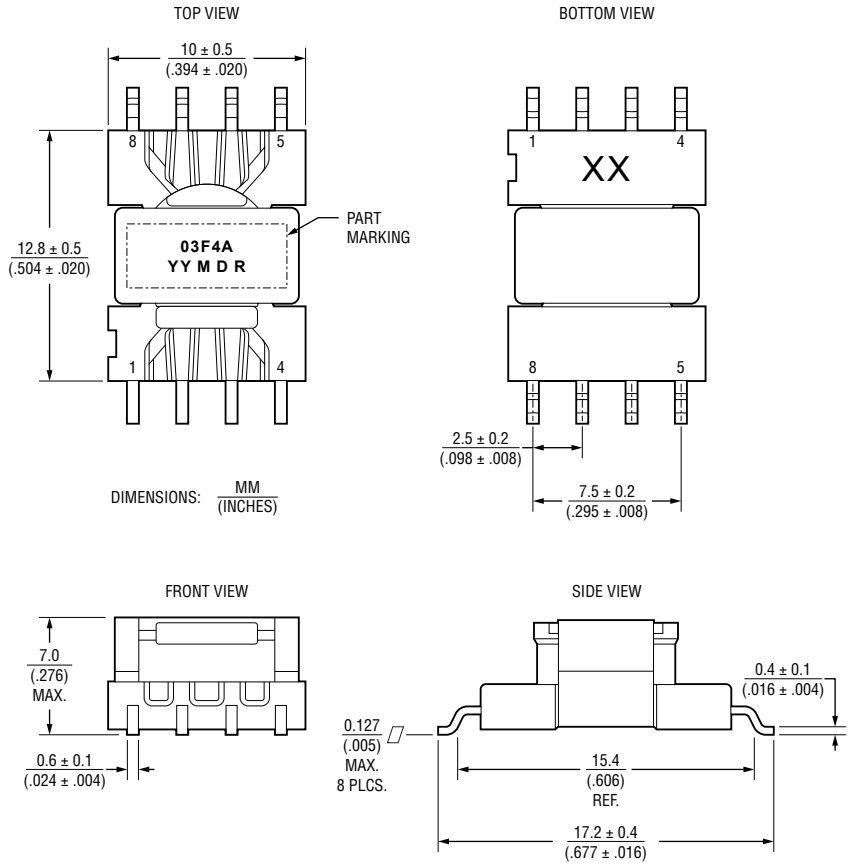
PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Specifications @ 25 °C

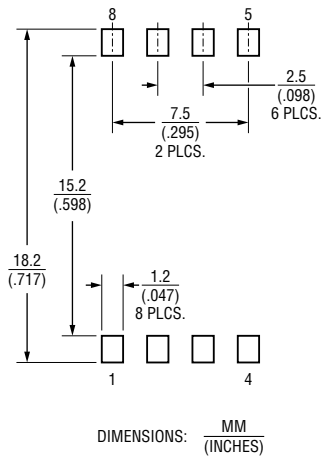
Bourns Part Number	Primary Inductance @ 100 kHz / 0.1 V		Leakage Inductance[1] (nH)		Turns Ratio		DCR max. (mΩ)		Hi-Pot: 60 sec. / 2 mA	Working Voltage (V)
HVMA03F4A-LP8S	(1-4)	4 µH ±15 %	(1-4)	400 nH max.	(1-4) : (8-6) : (6-5)	5 : 1 : 4 ±5 %	(1-4)	120	2750 V	800
							(6-5)	100		
							(8-6)	34		

NOTE: (1) Leakage inductance measured (5,8) shorted @ 100 kHz, 0.1 V.

Product Dimensions



Recommended Layout

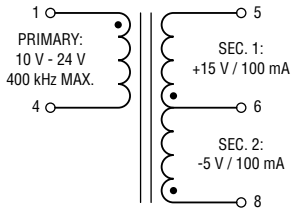


WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*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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Electrical Schematic



OUTPUT POWER: 2 W

Materials

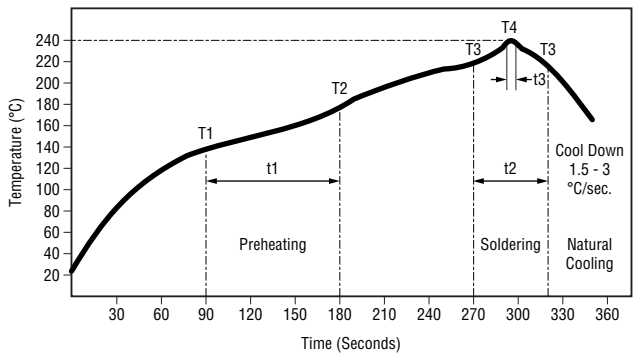
Bobbin .....Phenolic
Wire .....Fully Insulated Copper
Core ..... Ferrite
Glue.....Epoxy

How to Order

HVM A 03 F 4 A - LP 8 S

Model
HVM = Gate Driver & Flyback Transf.
Grade
A = Automotive Grade
Power Rating
03 = 2 W
Topology Type
F = Flyback Transformer
T = Gate Drive Transformer
Inductance Value
4 = 4 µH
A = Series Number
Profile
LP = Low Profile ER9.5
Creepage
8 = 8 mm
PCB Type
S = SMD

Lead-Free Soldering Profile



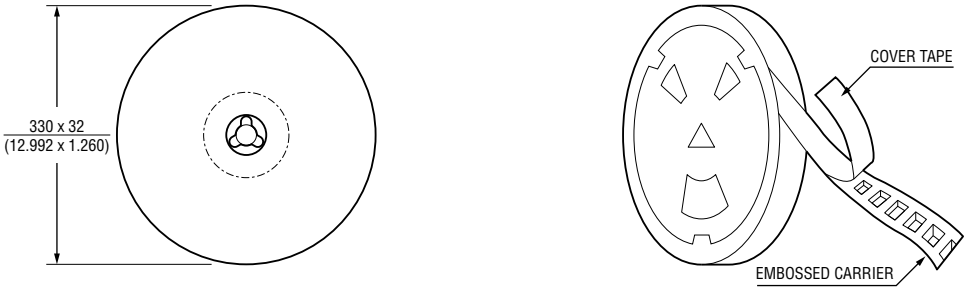
Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
140 °C	180 °C	60-120 sec.	220 °C	40-70 sec.	240-250 °C	5 sec.

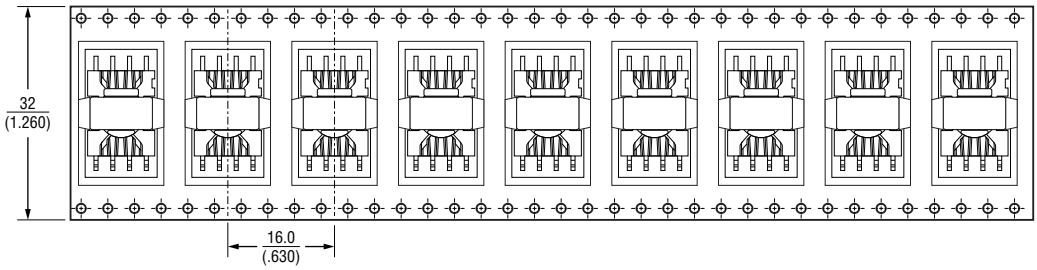
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Packaging Specifications

HVMA03F4A-LP8S: 600 pcs./reel, 5 reels/carton,
carton: 355 x 355 x 40 mm (14 x 14 x 1.575 inches),
enclosing bag: 380 x 420 mm (15 x 16.5 inches)





DIMENSIONS: MM (INCHES)

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