

## **Electrical / Environmental**

# **HM42**

**Gate Drive Transformers** 

- Operating Temperature Range
- -40°C to +125°C
- Ambient Temperature, Maximum
- +85°C
- 1500Vdc Isolation between Gate and Drive
- Basic Insulation 1500Vrms between Primary and Secondary







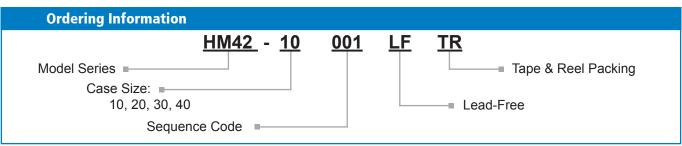
Electrical Sche	matics		
Figure 1	Figure 2	Figure 3	Figure 4
1 N2 N2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 N2 N2 N3 N3 S	$ \begin{array}{c c} 1 &  &  &  &  &  &  &  &  &  &  &  &  & $	1 4 N2 8 5

	Turme	Duimour	Laskana	Duimour	Cocondoni	Dui Coo	Electrical	Cara
Part Number	Turns Ratio	Primary Inductance (µH Min)	Leakage Inductance (µH Max)	Primary DCR $(\Omega Max)$	Secondary DCR $(\Omega Max)$	Pri-Sec Insulation	Electrical Schematic	Case Size

Notes: (1) Inductance is measured at 100kHz, 0.1Vrms.

(2) It is recommended that the temperature of the component (ambient plus temperature rise) does not exceed 125°C under worst case operating conditions.

Packaging				
Standard: Embosse	ed Tape & Ree	el		
Reel:	Diameter:		=	13" (330.2mm)
	Capacity:	Case size 10	=	750 Units
		Case size 20	=	1,500 Units
		Case size 30	=	1,000 Units
		Case size 40	=	450 Units

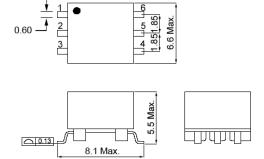


**Bi** technologies

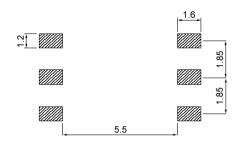


## **Outline Dimensions (Inch/mm)**

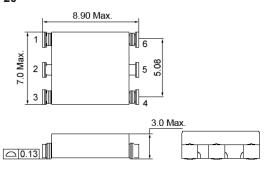
## Case 10



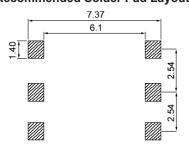
## **Recommended Solder Pad Layout**



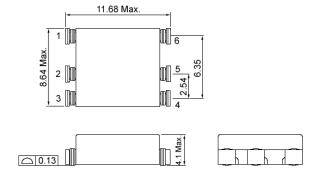
## Case 20



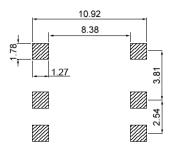
## **Recommended Solder Pad Layout**



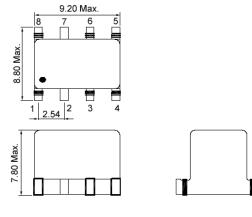
#### Case 30



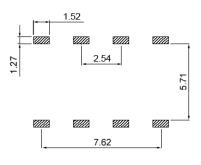
## **Recommended Solder Pad Layout**



#### Case 40



## **Recommended Solder Pad Layout**



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