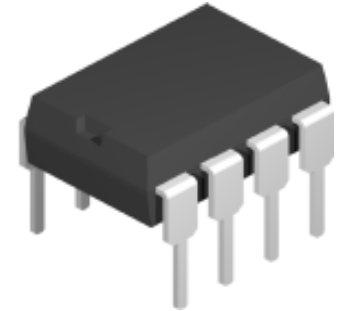
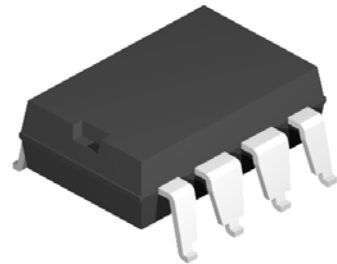


# Interface Transformer

## General Description

The TX-02-4400PI/JI is a dual winding interface transformer designed to be used with the IXYS IXBD4410/IXBD4411 chip set. This ISOSMART chip set controls the gates of two Power MOSFETs or IGBTs connected in a half-bridge (phase-leg) configuration. This signal transformer transfers information between the two chips with greater than 2500V (RMS) isolation.

The TX02-4400PI is available in the standard 8-pin DIP package (TX02-4400PI) and the 8-pin DIP Gullwing package (TX02-4400JI)

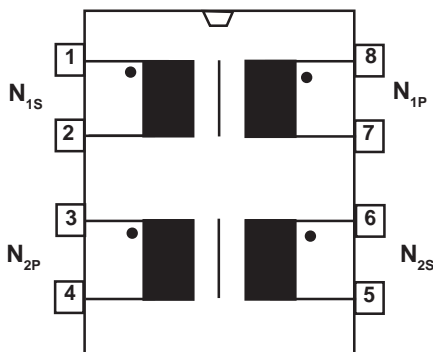

**TX02-4400PI**

**TX02-4400JI**

## Preliminary Data Sheet

Symbol	Test Conditions	Ratings	
$N_p:N_s$	Primary to Secondary Turns Ratio	3:1	
$L_p$	$f = 100 \text{ kHz}$ (Note 1)	0.97	$\mu\text{H}$
$L_s$	$f = 100 \text{ kHz}$ (Note 1)	0.1	$\mu\text{H}$
$C_s$	$f = 100\text{kHz}$ ; primary to secondary (Note 1)	0.5	$\text{pF}$
$V_{\text{ISOL}}$	Primary to secondary, 50/60 Hz, RMS, $t = 1 \text{ minute}$	2500	V
$T_{\text{OP, STG}}$	Operating and storage Temperature	-55 ... +125	$^{\circ}\text{C}$
$T_L$	1.6 mm (0.063 in) from case for 10 s	300	$^{\circ}\text{C}$
<b>Weight</b>		2	g

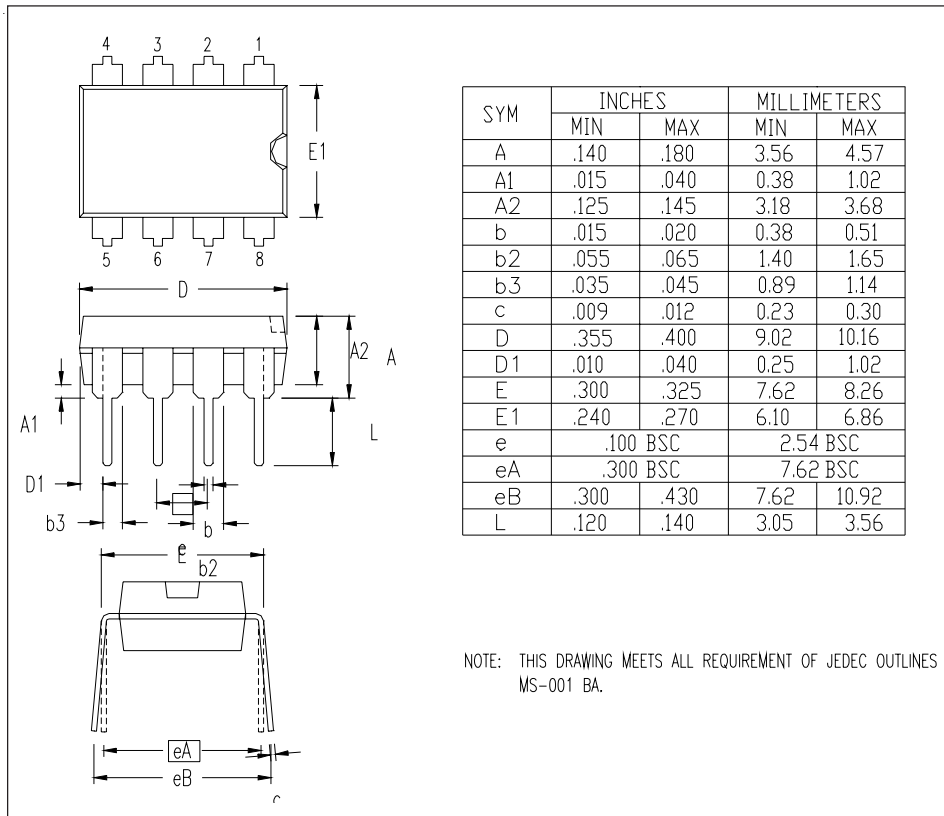
**Notes:** 1. Nominal value

## Pin Configuration



## Features

- 2500V (RMS) Isolation
- Low interwinding capacitance
- Economical 8-PIN DIP packages
- Molding epoxy meets UL 94V-O flammability classification
- To be submitted for UL recognition

**Package Outline: 8-PIN DIP (TX02-4400PI)**

**Package Outline: 8-PIN DIP-SM (TX02-4400JI)**
