

# MEDIA ISOLATION TRANSFORMERS

## For Level One's LXT905 IC



- Manufactured in ISO 9001 registered facilities
- Meets IEEE 802.3 1990 10Base-T specifications
- 2000 Vrms meets IEE 802.3 safety requirements for LANs
- Transmit and receive in one package
- Low leakage inductance and interwinding capacitance
- SMT package proven in all soldering processes; small form factor, 50-mil lead spacing

### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

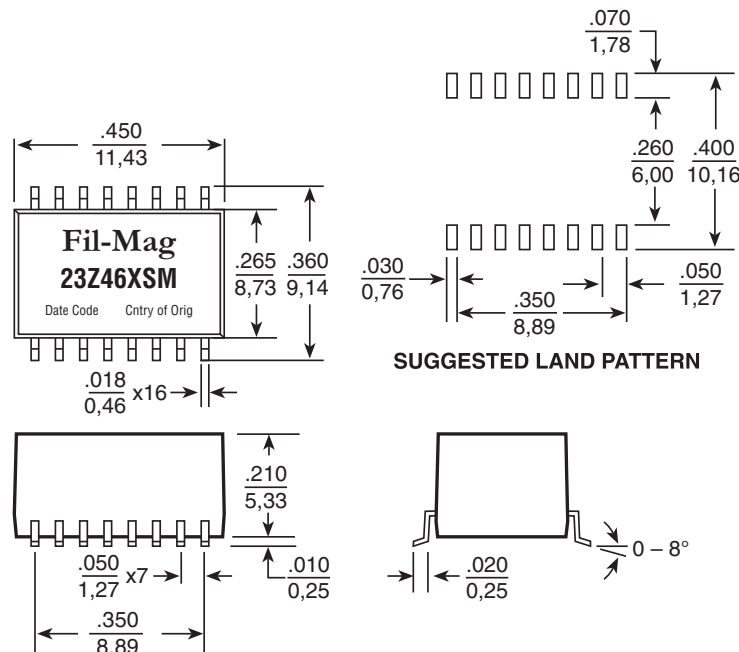
| Part Number | Pin   | Turns Ratio (2%) | $L_p$ ( $\mu$ H) | $L_L$ ( $\mu$ H MAX) | $C_c$ (pF MAX) | DCR ( $\Omega$ MAX) | DWV Vrms MIN |
|-------------|-------|------------------|------------------|----------------------|----------------|---------------------|--------------|
| 23Z466SM    | 1-3   | 1CT:1CT          | 98 MIN           | Shrt                 | 8.0            | 0.6                 | 2000         |
|             | 16-14 |                  | 98 MIN           | 0.30                 |                | 0.6                 | 2000         |
| 23Z467SM    | 6-8   | 1CT:2CT          | 175 MIN          | 0.10                 | 12.0           | 0.6                 | 2000         |
|             | 11-9  |                  | 70 MIN           | Shrt                 |                | 0.6                 | 2000         |

### Common Mode Inductor of the 23Z467SM

| Part Number | Pin | Turns Ratio (2%) | $L_p$ ( $\mu$ H $\pm$ 30%) | $L_L$ ( $\mu$ H MAX) | $C_c$ (pF MAX) | DCR ( $\Omega$ MAX) | DWV Vrms MIN |
|-------------|-----|------------------|----------------------------|----------------------|----------------|---------------------|--------------|
| 23Z467SM    | —   | 1:1:1:1          | 60                         | —                    | —              | 0.3                 | —            |

## Mechanical

### 23Z466SM, 23Z467SM



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified all tolerances are  $\pm \frac{.005}{0.13}$ . Lead coplanarity is  $\pm .002$

When ordering Tape & Reel packaging add the suffix "T" to the part number, such as "23Z467SM-T."

Weight ..... 2.8 grams  
Tape & Reel ..... 750/reel  
Tube ..... 40/tube

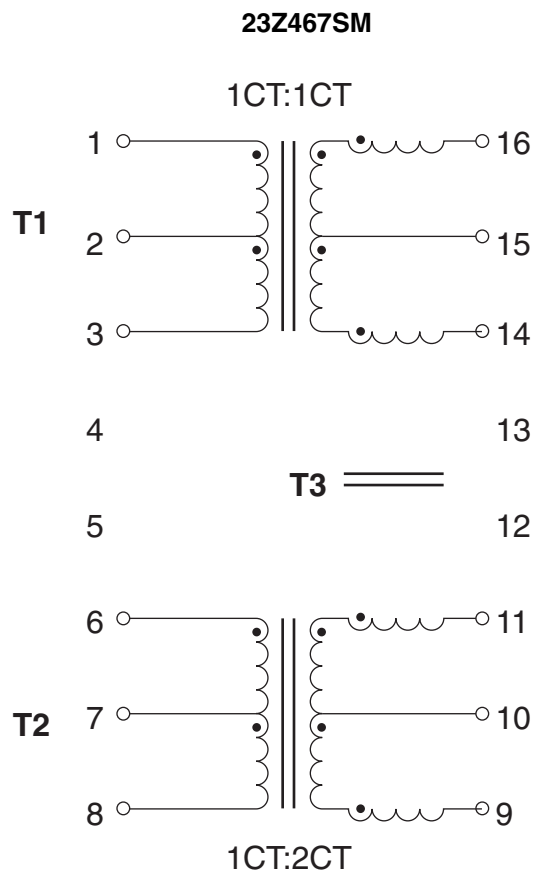
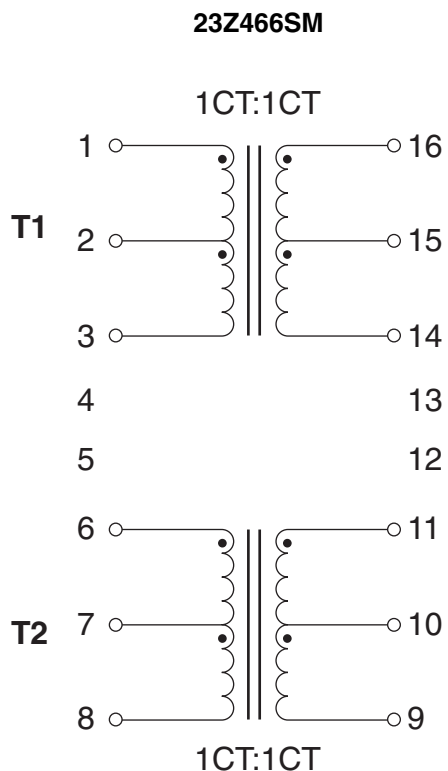
# MEDIA ISOLATION TRANSFORMERS

## For Level One's LXT905 IC



### Schematics

#### 23Z466SM, 23Z467SM



### For More Information :

| UNITED STATES<br>(Worldwide)                                                                                                                                        | UNITED KINGDOM<br>(Northern Europe)                                                                                                        | FRANCE<br>(Southern Europe)                                                                         | SINGAPORE<br>(Southern Asia)                                                                            | TAIWAN, R.O.C.<br>(Northern Asia)                                                                                                   | HONG KONG<br>(Great China)                                                                                                                      | DISTRIBUTOR |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 12220 World Trade Drive<br>San Diego, CA 92128<br>U.S.A.<br><a href="http://www.pulseeng.com">http://www.pulseeng.com</a><br>TEL: 858 674 8100<br>FAX: 858 674 8262 | 1 & 2 Huxley Road<br>The Surrey Research Park<br>Guildford, Surrey GU2 5RE<br>United Kingdom<br>TEL: 44 1483 401700<br>FAX: 44 1483 401701 | Zone Industrielle<br>F-39270<br>Orgelet<br>France<br>TEL: 33 3 84 35 04 04<br>FAX: 33 3 84 25 46 41 | 150 Kampong Ampat<br>#07-01/02<br>KA Centre<br>Singapore 368324<br>TEL: 65 287 8998<br>FAX: 65 280 0080 | 3F-4, No. 81, Sec. 1<br>HsinTai Wu Road<br>Hsi-Chih, Taipei Hsien<br>Taiwan, R.O.C.<br>Tel: 886 2 2698 0228<br>FAX: 886 2 2698 0948 | 19/F, China United Plaza<br>1008 Tai Nan West Street<br>Cheung Sha Wan, Kowloon<br>Hong Kong, China<br>TEL: 852 2788 6588<br>FAX: 852 2776 1055 |             |

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

Printed on recycled paper. ©2002, Pulse Engineering, Inc.