1000 Series
Pulse Transformers

SELECTION GUIDE

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<tr>
<th>Order Code</th>
<th>Turns Ratio ±2%</th>
<th>Min. Primary Inductance</th>
<th>Min. Primary Constant, E1</th>
<th>Max. Leakage Inductance</th>
<th>Max. Interwinding Capacitance</th>
<th>Max. Resistance Primary Winding</th>
<th>Max. DC Resistance Primary winding</th>
<th>Max. DC Resistance Secondary 1 winding</th>
<th>Max. DC Resistance Secondary 2 winding</th>
<th>Isolation Voltage</th>
<th>Pin Connection Style</th>
<th>Mechanical Dimensions</th>
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<tbody>
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</tbody>
</table>

ABSOLUTE MAXIMUM RATINGS

- Operating free air temperature range: 0°C to 70°C
- Storage temperature range: -60°C to 125°C

SOLDERING INFORMATION

- Peak wave solder temperature: 300°C for 10 seconds
- Pin finish: Matte tin

1 For further information, please visit www.murata-ps.com/rohs

All specifications typical at Ta=25°C.

TUBE DIMENSIONS

All dimensions in mm (inches).
- Tube length: 480±2mm (18.9±0.08)
- Tube quantity: 30

For full details go to www.murata-ps.com/support

www.murata-ps.com/support/rohs
**MECHANICAL DIMENSIONS**

**PIN CONNECTIONS (TOP VIEW)**

**A**

1. Pri
2. Sec

**B**

1. Pri
2. Sec
3. S1
4. S2

**C**

1. Pri
2. Sec
3. Pri

All dimensions in mm (inches). Package weight: 8.0g Typ.

**TECHNICAL NOTES**

**ISOLATION VOLTAGE**

‘Hi Pot Test’, ‘Flash Tested’, ‘Withstand Voltage’, ‘Proof Voltage’, ‘Dielectric Withstand Voltage’ & ‘Isolation Test Voltage’ are all terms that relate to the same thing, a test voltage, applied for a specified time, across a component designed to provide electrical isolation, to verify the integrity of that isolation.

All products in this series are 100% production tested at their stated isolation voltage.

A question commonly asked is, “What is the continuous voltage that can be applied across the part in normal operation?”

For a part holding no specific agency approvals both input and output should normally be maintained within SELV limits i.e. less than 42.4V peak, or 60VDC. The isolation test voltage represents a measure of immunity to transient voltages and the part should never be used as an element of a safety isolation system. The part could be expected to function correctly with several hundred volts offset applied continuously across the isolation barrier; but then the circuitry on both sides of the barrier must be regarded as operating at an unsafe voltage and further isolation/insulation systems must form a barrier between these circuits and any user-accessible circuitry according to safety standard requirements.

**REPEATED HIGH-VOLTAGE ISOLATION TESTING**

It is well known that repeated high-voltage isolation testing of a barrier component can actually degrade isolation capability, to a lesser or greater degree depending on materials, construction and environment. While parts can be expected to withstand several times the stated test voltage, the isolation capability does depend on the insulative materials used. Such materials are susceptible to chemical degradation when subject to very high applied voltages. We therefore strongly advise against repeated high voltage isolation testing, but if it is absolutely required, that the voltage be reduced by 20% from specified test voltage.

This consideration equally applies to agency recognized parts rated for better than functional isolation where wire enamel insulation is always supplemented by a further insulation system of physical spacing or barriers.