786 Series

General Purpose Pulse Transformers

Order Code	Turns Ratio	Min. Primary Inductance	Primary Min. Volt-time Product, Et	Typ. Leakage Inductance	Typ. Interwinding Capacitance	Max. DC Resistance	Isolation Voltage	Winding Configuration	
		μH	Vµs	μH	pF	Ω	Vrms	ŭ	
78601/4C	1:1	67	4	0.19	8	0.17			
78601/3C	1:1	200	6	0.20	14	0.25			
78601/2C	1:1	500	10	0.25	22	0.34			
78601/8C	1:1	1000	15	0.29	35	0.45	1000	1	
78601/1C	1:1	2000	20	0.47	49	0.60			
78601/16C	1:1	4000	28	0.47	78	0.84			
78601/9C	1:1	10000	56	0.86	121	1.30			
78602/4C	1:1:1	67	4	0.11	12	0.18			
78602/3C	1:1:1	200	6	0.17	19	0.24			
78602/2C	1:1:1	500	10	0.27	32	0.34			
78602/8C	1:1:1	1000	15	0.35	47	0.46	1000	2	
78602/1C	1:1:1	2000	20	0.60	72	0.66			
78602/16C	1:1:1	4000	28	0.71	116	0.92			
78602/9C	1:1:1	10000	56	0.71	167	1.34			
78604/4C	2:1	67	4	0.41	4	0.18			
78604/3C	2:1	200	6	0.49	9	0.25			
78604/2C	2:1	500	10	0.65	13	0.34			
78604/8C	2:1	1000	15	0.76	20	0.46	1000 1		
78604/1C	2:1	2000	20	0.99	29	0.60			
78604/16C	2:1	4000	28	1.61	50	0.85			
78604/9C	2:1	10000	56	1.64	72	1.23			
78613/4C	1CT:1	67	4	0.30	7	0.20			
78613/3C	1CT:1	200	6	0.65	12	0.25			
78613/2C	1CT:1	500	10	1.07	20	0.36			
78613/8C	1CT:1	1000	15	1.13	35	0.48	1000	3	
78613/1C	1CT:1	2000	20	1.53	47	0.63			
78613/16C	1CT:1	4000	28	1.98	64	0.88			
78613/9C	1CT:1	10000	56	3.83	72	1.33			
78615/4C	1CT:1CT	67	4	1.21	3	0.17			
78615/3C	1CT:1CT	200	6	3.64	5	0.24			
78615/2C	1CT:1CT	500	10	6.86	7	0.34			
78615/8C	1CT:1CT	1000	15	11.9	10	0.45	1000	4	
78615/1C	1CT:1CT	2000	20	16.0	16	0.60			
78615/16C	1CT:1CT	4000	28	37.7	20	0.87			
78615/9C	1CT:1CT	10000	56	44.5	19	1.33			
ORDER CODI	E DETAILS								
Order Code		Package Type		Packaging Type		Quantity			
786XX/XC 786XX/XMC		6 Pin DIL 6 Pin SM		Tube			50 50		
786XX/)	(MC-R	6	Pin SM	Т	ape & Reel		500		
ABSOLUTE N	MAXIMUM R	ATINGS							
Operating free	perating free air temperature range					0°	0°C to 70°C		

Operating free air temperature range	0°C to 70°C
Storage temperature range	-60°C to 125°C
SOLDERING INFORMATION ¹	
Pin finish	Matte tin
Peak wave solder temperature	300°C for 10 second
Peak reflow temperature ²	220°C

2 For higher temperature reflow variants see 786J series datasheet

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SELECTION GUIDE

FEATURES
RoHS compliant
4 Configurations
Primary inductance to 10mH
1kVrms isolation
Industry standard pinout
Surface mount option
UL 94 V-0 package materials
Low profile
Toroidal construction
Fully encapsulated

DESCRIPTION

The 786 series is a comprehensive range of general purpose pulse transformers. Common applications include line coupling, matching or isolating. The devices can also be used in small isolated power supplies and also as commonmode chokes in filtering applications.

Surface-mount parts

The surface-mount (M suffix) products are not recommended for new designs. For existing designs, however, Murata Power Solutions will continue to manufacture and fully support these parts.

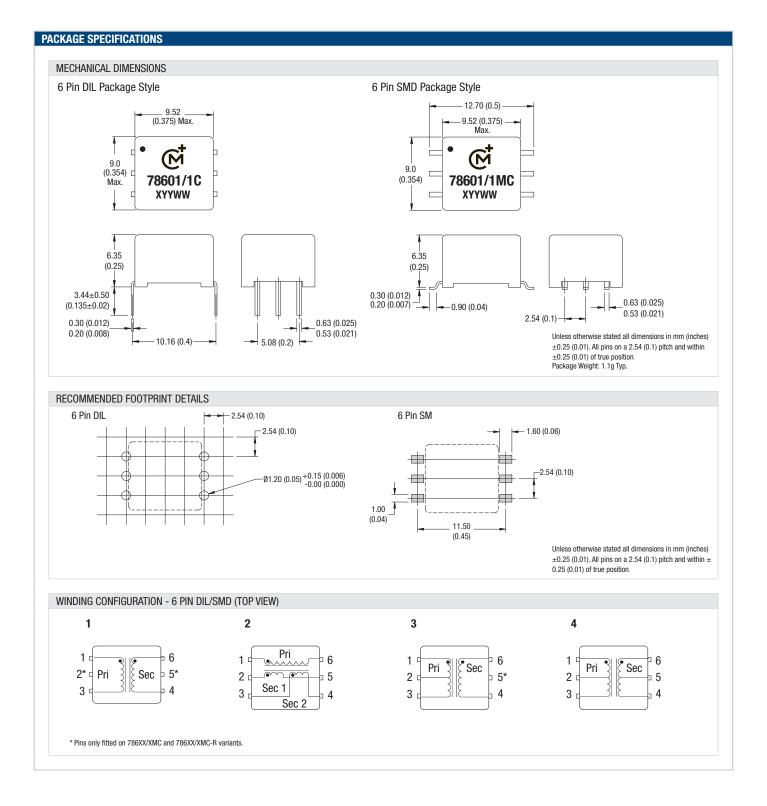
For recommended alternatives please refer to the 786J Series datasheet.



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786 Series

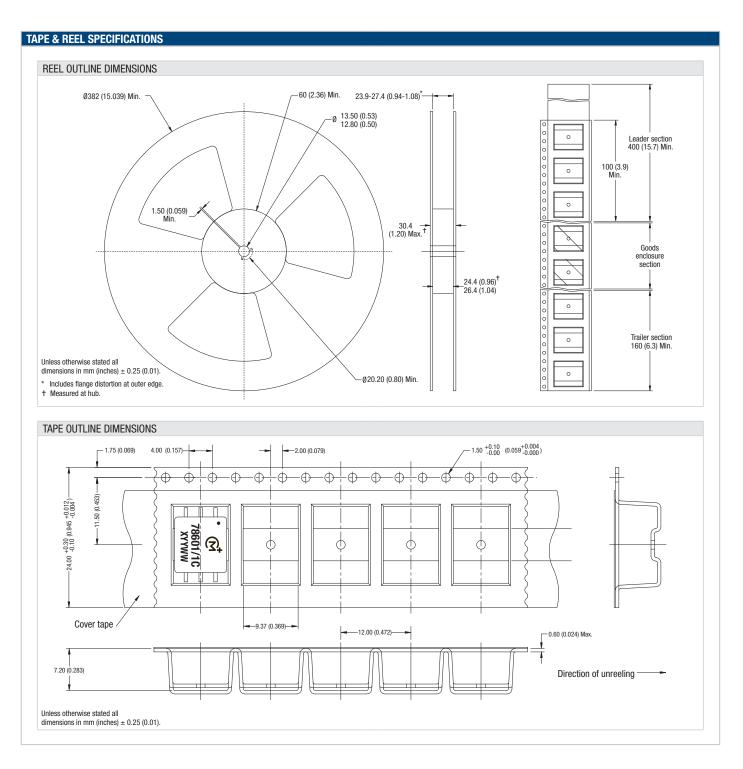
General Purpose Pulse Transformers



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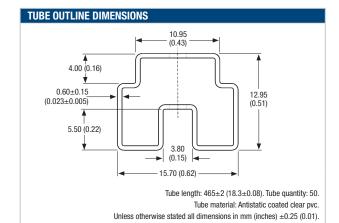
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General Purpose Pulse Transformers



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. This series has toroidal isolation transformers, with no additional insulation between primary and secondary windings of enameled wire. While parts can be expected to withstand several times the stated test voltage, the isolation capability does depend on the wire insulation. Any material, including this enamel (typically polyurethane) is susceptible to eventual chemical degradation when subject to very high applied voltages thus implying that the number of tests should be strictly limited. 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 recognised parts rated for better than functional isolation where the wire enamel insulation is always supplemented by a further insulation system of physical spacing or barriers.



This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy: Refer to: http://www.murata-ps.com/requirements/

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