

Pulse Transformers





FEATURES

- RoHS compliant
- 5 Configurations
- Inductance to 11.7mH
- Up to 50 Vµs E_T
- Industry standard pinout
- 500Vrms Isolation
- PCB mounting
- UL 94 V-0 package materials
- Toroidal construction
- Fully encapsulated

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The 766 Series is a range of general purpose pulse transformers. Common applications include line coupling, impedance-matching, or isolating. The devices can also be used in small isolated power supplies or as common-mode chokes in filtering applications.

SELECTION (SUIDF1								
Order Code	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, Er	Max. Leakage Inductance	Max. Interwinding Capacitance	Max. DC Resistance	Max. Isolation Voltage	Pin Connection Style	Mechanical Dimensions
		μН	Vµs	μН	pF	Ω	Vrms	<u>-</u>	
			Recomn	nended	In Produ	uction			
76601/1C	1:1	1916	17.5	0.60	49	1.50		В	1
76601/2C	1:1	492	8.5	0.30	22	0.80	500		
76601/3C	1:1	219	5.5	0.25	12	0.50			
76602/1C	1:1:1	2060	17.5	0.60	72	1.50		С	2
76611/2C	4:1:1	643	9.92	1.70	13	0.80		Е	
76615/1C	1ст:1ст	3200	45	4.00	75	1.00		D	
Please note: For	additional va	ariants please	see 786 seri	es datasheet.					
				Discon	tinued				
76600/1C	1:1	1916	17.5	0.60	49	1.50	500	A	1
76600/2C	1:1	492	8.5	0.30	22	0.80			
76600/3C	1:1	219	5.5	0.25	14	0.50			
76600/4C	1:1	50	4.0	0.20	10	0.40			
76601/20C	1:1	20.1	2.5	0.20	5	0.20		В	
76601/23C	1:1	700	10.5	0.20	35	0.20			
76601/24C	1:1	11.7mH	50.5	0.86	250	1.35			
76616/3C	2ст:1ст	4350	23	3.00	35	1.00		D	2

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	0°C to 70°C
Storage temperature range	-60°C to 125°C

SOLDERING INFORMATION ¹	
Peak wave solder temperature	300°C for 10 seconds
Pin finish	Matte tin with nickel pre-plate

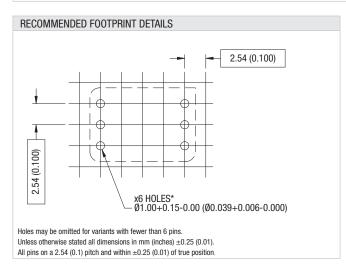
1 For further information, please visit www.murata-ps.com/rohs All specifications typical at $T_{\rm A}$ =25°C.

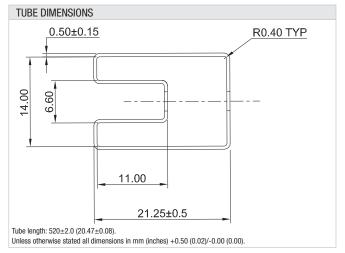




Pulse Transformers

PACKAGE SPECIFICATIONS MECHANICAL DIMENSIONS 2 1 12.70 (0.500) Max. 12.70 (0.500) Max. 8.89 (0.350) Max (M) 8.89 (0.350) Max (M 2 4 610 3 • 602 6C 10 6 6 XYYWW XYYWW 10.00 (0.394) 10.00 (0.394) 6.35(0.250)6.35 (0.250) 0.56±0.05 (0.022±0.002) 0.56±0.05 (0.022±0.002) 2.54 (0.100) 5.08 (0.200) 2.54 (0.100) 2.54 (0.100) 10.16 (0.400) 10.16 (0.400) Unless otherwise stated all dimensions in mm (inches) ± 0.25 (0.01). All pins on a 2.54 (0.1) pitch and within ± 0.25 (0.01) of true position Package Weight: 1.1g Typ.







Pulse Transformers

PACKAGE SPECIFICATIONS (continued) PIN CONNECTION STYLE - 6 PIN DIP (TOP VIEW) Α R С D F 12 ď PRI PRI SEC SEC PRI 6 SEC 2

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 <u>operating requirements</u> and the <u>Life and Safety Critical Application Sales Policy</u>:

Refer to: http://www.murata-ps.com/requirements/

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TGMR-430V8LF TGMR-501V6LF 76615/1C B82804A0304A225 TGM-040P3RL IT 238 HM41-11210LF TGM-210NSRL TGM240NSRL TGMR-511V6LF TGM-240NSLF TGM-030P3RL CTX16-17360 ITNA-0239-D202 TGM-H280V8LF TGM-340NARL T60403D4097-X052 ITRB-0239-D502 TGM-H240V8LF 78601/2JC-R TGAD-292NARL HX6096NLT 78601/2MC-R T60403-D4215-X177
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