

# Transformers

## Pulse Transformers

### SMD

SMPT Series SMPT0706

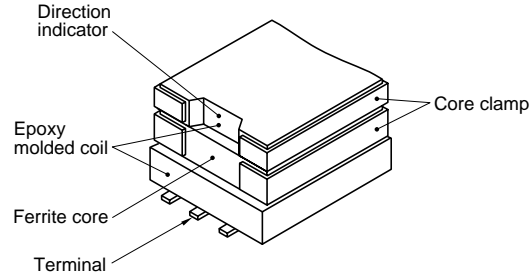
#### FEATURES

- The SMPT series pulse transformers have been designed for high reliability in low-level digital signal applications.
- The resin-molded windings can withstand whole washing.
- Flat construction ensures reliable vacuum suction during the pick-and-place process of automated surface mounters.
- Supports reflow soldering.

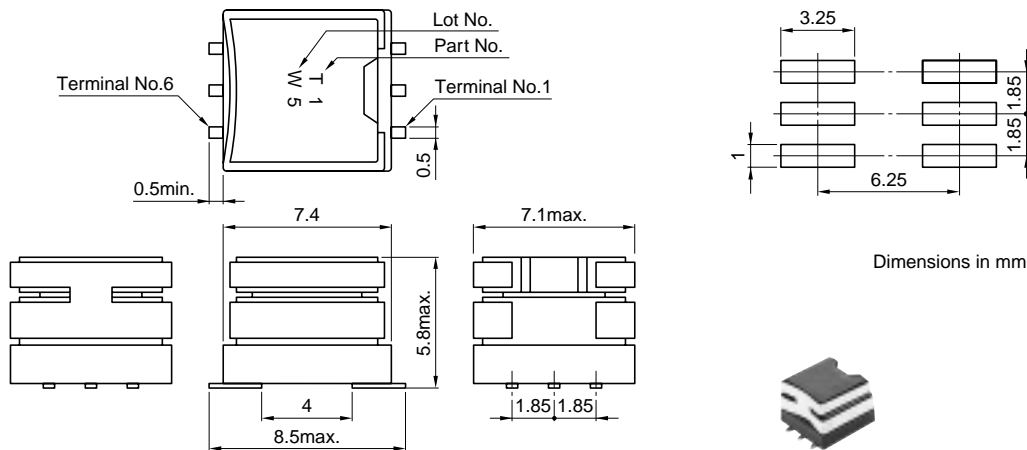
#### APPLICATIONS

Terminals, subscriber communications systems, trunk communications systems, low-level digital signal equipment.

#### STRUCTURE



#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



#### ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio Np to Ns	Primary inductance Terminal No.3 to 1	Leakage inductance* Np to Ns	Inter-winding* capacitance Np to Ns	Primary impedance	Frequency bandwidth -3dB Np to Ns
SMPT0706-T1T	1:1	≧ 600μH	0.6μH	9.5pF	110Ω	20kHz to 20MHz
SMPT0706-T2T	1:2	≧ 600μH	0.5μH	10pF	110Ω	20kHz to 20MHz
SMPT0706-T3T	1:0.66	≧ 2.5mH	1.7μH	11pF	110Ω	20kHz to 10MHz
SMPT0706-T4T	1:2	≧ 2mH	1.6μH	12pF	110Ω	8kHz to 10MHz
SMPT0706-T5T	1:4	≧ 1mH	0.8μH	15pF	110Ω	10kHz to 8MHz
SMPT0706-T6T	1:4	≧ 100μH	0.2μH	7pF	110Ω	80kHz to 10MHz
SMPT0706-T7T	1:1.53	≧ 1.4mH	2μH	6.5pF	110Ω	8kHz to 10MHz
SMPT0706-T8T	1:1	≧ 4mH	6μH	7pF	110Ω	3kHz to 5MHz

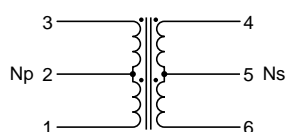
\* Reference value

• Measuring condition: 25°C

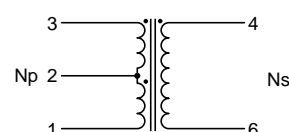
• Operating temperature range: -20 to +70°C (Temperature range for trouble-free operation, not the temperature range over which rating values are maintained.)

#### WINDING CONFIGURATIONS

##### SMPT0706-T1T, -T2T, -T4T to -T8T



##### SMPT0706-T3T



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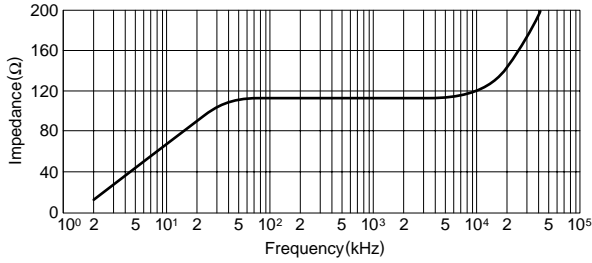
### SMD

## SMPT Series SMPT0706

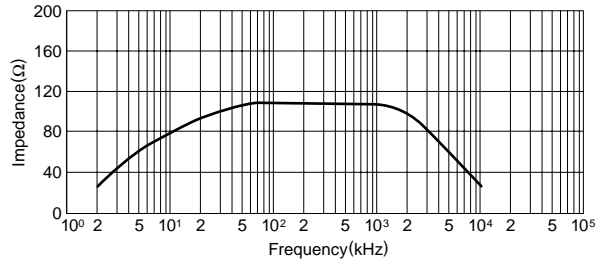
### TYPICAL ELECTRICAL CHARACTERISTICS

#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

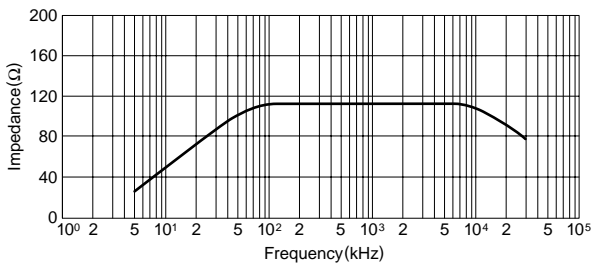
**SMPT0706-T1T**



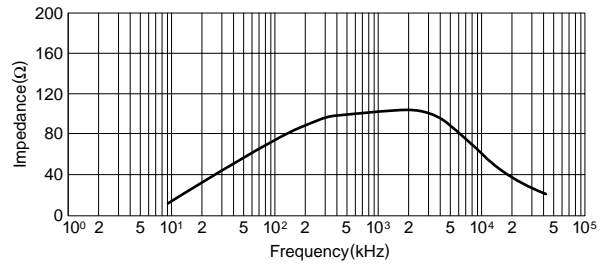
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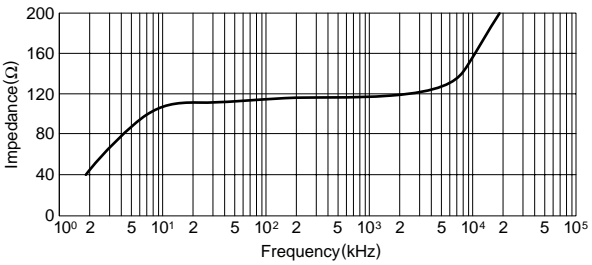
**SMPT0706-T2T**



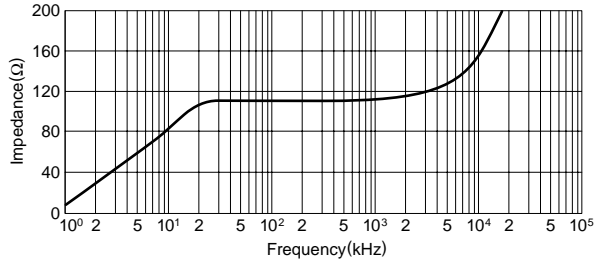
**SMPT0706-T6T**



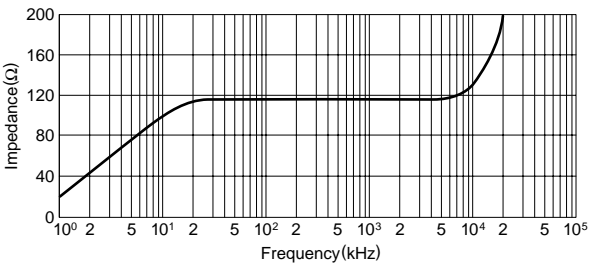
**SMPT0706-T3T**



**SMPT0706-T7T**



**SMPT0706-T4T**



**SMPT0706-T8T**

