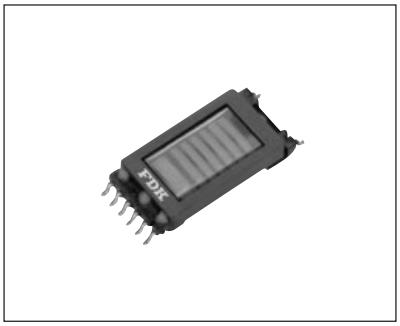
T-1229M SMT 12mm-width Type

Features

High voltage withstand (300$V_{o\text{-}p}$ higher than T-1229) **Mounting area (12 x 29mm) cut by 24%**

- A low-loss ferrite and a new-shape core has realized a super compact and high-output inverter transformer (max. height of 5.2mm) for designing narrow and flat inverter units.
- Particularly suitable for large LCD due to high withstand voltage specifications.
- Suitable also for large-sized LCDs, thanks to a high withstand voltage.
- Compatible with reflow soldering.
- Resistance to wire breakage boosted by twisted secondary winding terminals.
- An outstanding 94% coupling coefficient (in voltage ratio).



Applications

For achieving LCD differentiation

- Notebook PCs having a large LCD (up to 13-inch screen)
- Car navigators and game machines with parallel specifications for high luminance

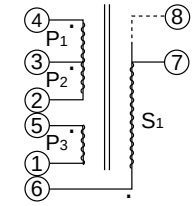
Electrical characteristics

Part No. (typical models)	Input voltage [V_{dc}]	Open voltage [$V_{o\text{-}p}$]	Max. output power [W]	Frequency [kHz]	Withstand voltage (AC60Hz, 1min.)[kV_{rms}]		Efficiency [%]
					Between 1st & 2nd windings	Between 2nd winding & core	
T-1229M customize	—	2,300 max.☆	Typ. 3 *1 (4)	40~200	0.5 min. *2	0.5 min.	80 *1
T-1229M-197	Typ. 4.5 (5.6 max.)	Typ. 1,730					
T-1229M-192	Typ. 5.7 (7.2 max.)	Typ. 1,760					
T-1229M-194	Typ. 7.0 (8.8 max.)	Typ. 1,760					

Part No. (typical models)	Winding: No. of turns $P_{1,2}$	Winding: No. of turns P_3	Winding: No. of turns S_1	S1 inductance at 1kHz[mH]	Gap [mm]
T-1229M customize	—	3	1,800	—	—*3
T-1229M-197	7			320	0.15
T-1229M-192	9				
T-1229M-194	11				

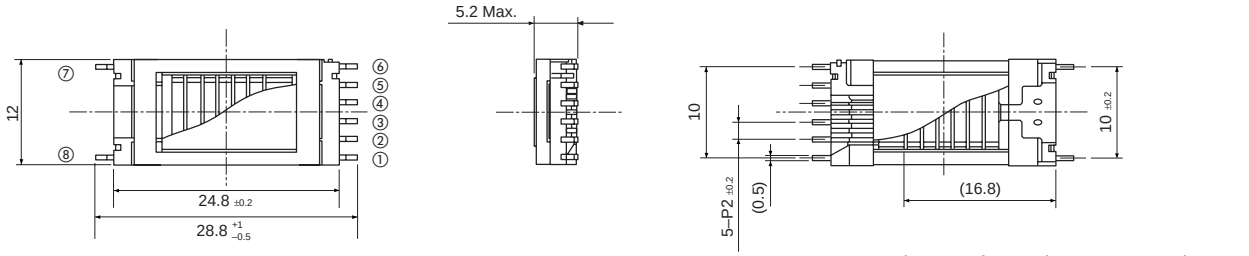
*3 Gap(3Item)vs. AL	
Gap [mm]	AL [nH/N^2]
0.1	120
0.15	100
0.2	90
Standard gap: 0.15mm	

Connection diagram*4



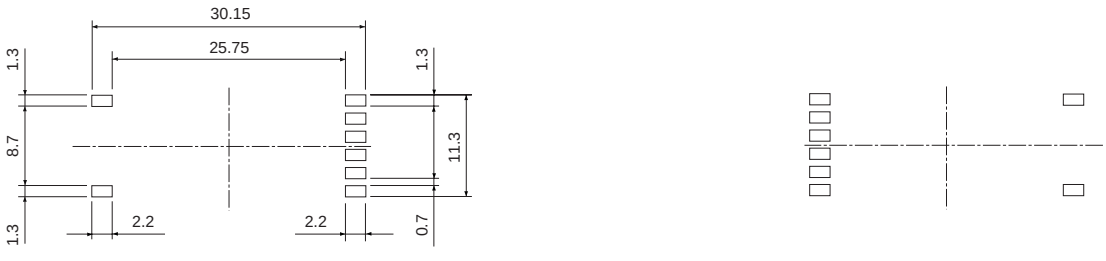
* **Notes:** To match your exact needs, please contact us for information on T-1229M customization. The T-1229M cannot be used in a floating type circuit. Be sure to ground the No.6*4 pin of the secondary winding. The maximum output (4W) and efficiency*1 vary according to operating conditions. The withstand voltage between the primary and secondary windings*2 varies according to the number of primary winding turns. There are three choices in gap dimension*3.
☆: Up to 2,410Vo-p permitted for duration of 3 sec. or less.

Shapes and dimensions



Note: Must not pattern on the transformer bottom Unit: mm

Recommended landing pattern and drop dimensions



Unit: mm