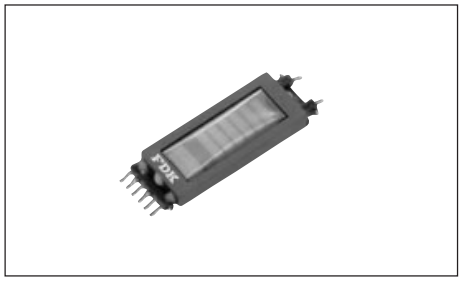
T-1033AS SMT 10mm-width type (Separate excitation IC drive feasibility)

Features

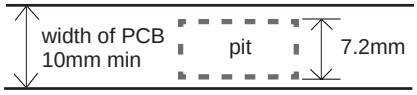
- Compact high-output transformer with a small width and height (4.5mm high*) enabled by a low-loss ferrite and new-shaped core. Suitable for slim and flat inverter designs.
  *Actual height on circuit board is 3.9mm and actual width is 10mm due to a pit in the circuit board.
- Reflow soldering feasibility.
- Outstanding efficiency possible by using separate excitation IC.



Applications

- Notebook PCs with a large slim LCD of up to 14 inches
- Video camera with an LCD
- PDA

height on the board
3.8mm max. bord



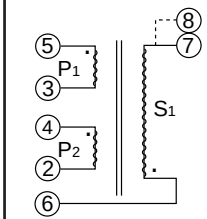
Electrical characteristics

Part No. (typical models)	Input voltage [V_{dc}]	Applicable IC	Max. output power [W]	Frequency [kHz]	Withstand voltage (AC60Hz, 1min.)[kV_{rms}]		Efficiency [%]
					Between 1st & 2nd windings	Between 2nd winding & core	
T-1033AS customize	–	–	3.0 *1 (5)	40~200	0.5 min. *2	0.5 min.	92 *1
T-1033AS-541	8~22	MP1010					
T-1033AS-546	Typ. 5	MP1012					
T-1033AS-540	Typ. 5	OZ965					

Part No. (typical models)	Winding: No. of turns			S1 inductance at 1kHz[mH]	S1 leakage inductance at 1kHz[mH]	Gap [mm]
	P_1	P_2	S_1			
T-1033AS customize	—	—	—	—	—	—*3
T-1033AS-541	16	—	1,880	1,000	280	0
T-1033AS-546	22	—				
T-1033AS-546	18	—	1,900	335	140	0.10

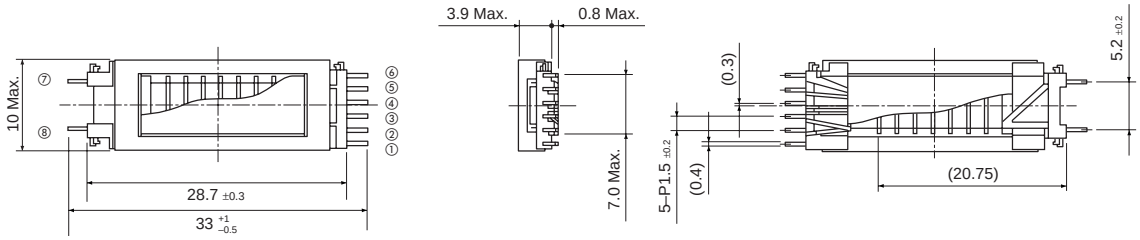
*3 Gap(3Item)vs. AL	
Gap [mm]	AL [nH/N^2]
0	280
0.10	110
0.15	90
Standard gap: 0mm	

Connection diagram*4



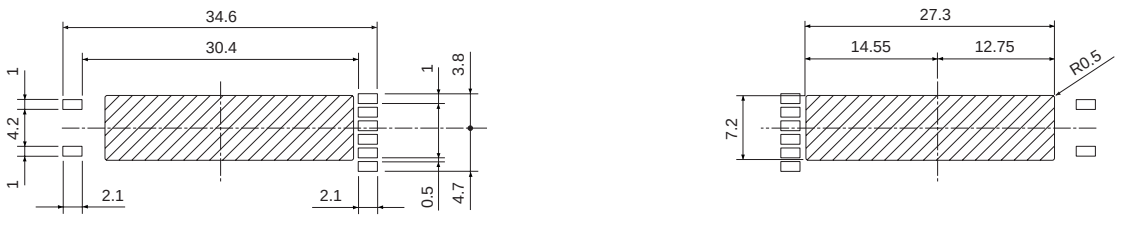
* **Notes:** To match your exact needs, please contact us for information on T-1033AS customization. The T-1033AS cannot be used in a floating type circuit. Be sure to ground the No.6*4 pin (first pin of the secondary winding). The maximum open voltage The maximum output (up to 5 W) and efficiency*1 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 width*3.
Up to 2,000Vo-p output voltage permitted.

Shapes and dimensions



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

Recommended landing pattern and drop dimensions



Unit: mm