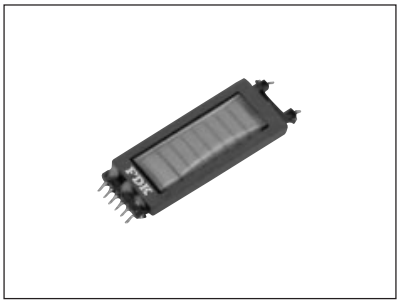
T-1136S SMT 11.5mm-width Type

Features

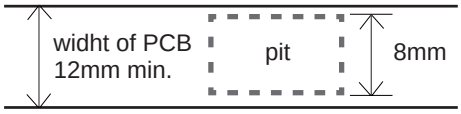


- A super low-loss ferrite (6H40) developed by ourselves and a new shape core give rise to a super thin and high-output inverter transformer (4.3mm high*) suitable for designing super slim and flat inverter units.
  * Although the maximum height is 4.3mm, the actual height on the circuit board is 3.7mm since T-1136S is partly dropped into the board.Also, because its drop width is 8mm, the minimum width of the circuit board for T-1136S is 12mm.
- Compatible with reflow soldering.
- Boasts an impressive 90% coupling coefficient (in voltage ratio).

Applications A springboard for product differentiation

- Notebook PCs having a large and slim LCD, PDA
- Slim LCD monitor

height on the board
3.7mm max
board



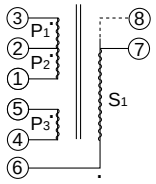
Electrical characteristics

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-1136S customize	–	2,400 max.☆	3.5 *1 (4)	40~200	0.5 min. *2	0.5 min.	80 *1
T-1136S-443	Typ. 5.0 (7.7 max.)	Typ. 1,450					
T-1136S-444	Typ. 5.5 (8.5 max.)	Typ. 1,450					
T-1136S-445	Typ. 6.0 (9.2 max.)	Typ. 1,450					

Part No. (typical models)	Winding: No. of turns			S1 inductance at 1kHz[mH]	Gap [mm]
	$P_{1,2}$	P_3	S_1		
T-1136S customize	—	4	2,000	—	—*3
T-1136S-443	10			300	0.2
T-1136S-444	11				
T-1136S-445	12				

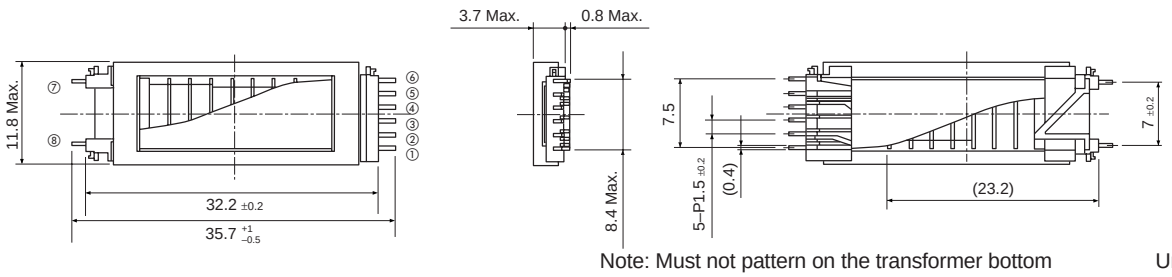
*3 Gap(3Item)vs. AL	
Gap [mm]	AL [nH/N^2]
0.15	90
0.2	80
0.3	70
Standard gap: 0.2mm	

Connection diagram*3



* **Notes:** To match your exact needs, please contact us for information on T-1136S customization. The 1136S cannot be used in a floating type circuit. Be sure to ground the No.6*3 pin of the secondary winding. The maximum output (4W) and efficiency*1 vary according to operating conditions. There are three choices in gap dimension*2
☆: Up to 2,500Vo-p permitted for duration of 3 sec. or less.

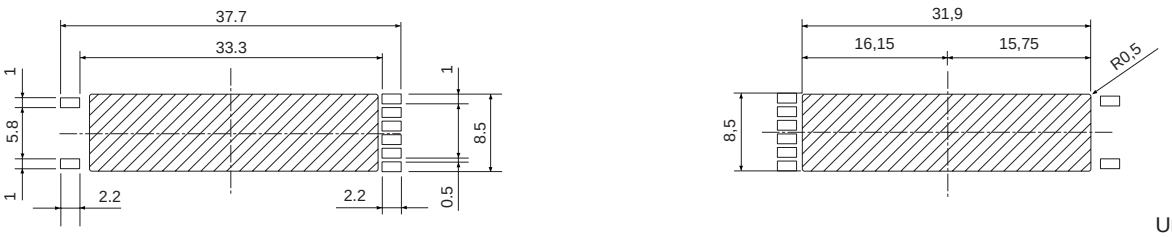
Shapes and dimensions



Note: Must not pattern on the transformer bottom

Unit: mm

Recommended landing pattern and drop dimensions



Unit: mm