

Flyback Transformer for Automotive

Model name

TR11-A-S

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Passion to Create Value through Difference



FEATURES

- High voltage isolation
- Small size
- Operation temperature range : -40°C to 125°C
- Applicable for AEC-Q200

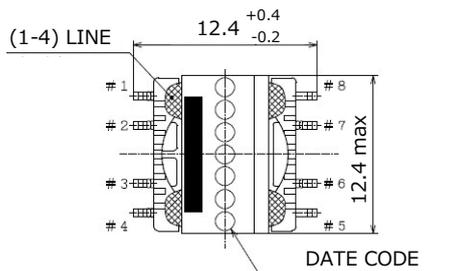


APPLICATION

- For inverter module system.

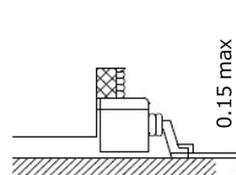
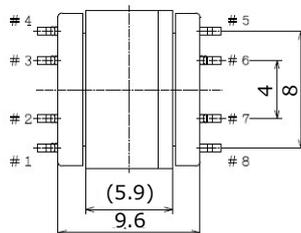
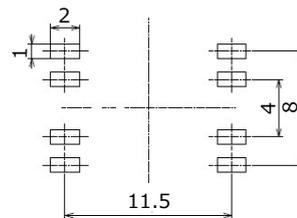
DIMENSION

- Size (L x W x H) : 12.8mm x 12.4mm x 6.0mm (MAX)



Unit : mm / Tolerance : ±0.2

(Land Pattern)



Note.

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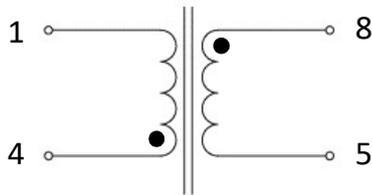
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IC refernce information

- Power supply for IGBT gate driver IC
 - ▶ IC maker : Broadcom
 - ▶ IC model name : ACPL-32JT
 - ▶ Mitsumi model name : TR11-A-S
 - ▶ Mitsumi sample number : DR12-C318

SCHEMATIC



ELECTRICAL CHARACTERISTIC

PARAMETER	TERMINALS	SPECIFICATION	CONDITION
INDUCTANCE	(1-4)	60 μ H \pm 25%	f=1kHz
	(5-8)	240 μ H Typ.	f=1kHz
DCR	(1-4)	620m Ω Max.	—
TURNS RATIO	Pri : Sec	1 : 2	—
WITHSTAND VOLTAGE	Pri : Sec	2.5kV	1 minute

*Operation temperatuer range : -40°C to 125°C

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RoHS

Halogen
Free

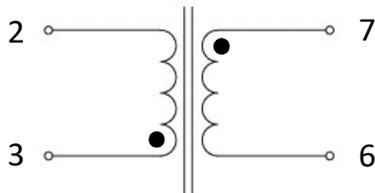
Lead
Free

AEC-Q200

IC refernce information

- Power supply for IGBT gate driver IC
 - ▶ IC maker : Broadcom
 - ▶ IC model name : ACPL-33JT, ACFJ-3530T, ACFJ-3531T, ACFH-3548T
 - ▶ Mitsumi model name : TR11-A-S
 - ▶ Mitsumi sample number : DR12-C303

SCHEMATIC



ELECTRICAL CHARACTERISTIC

PARAMETER	TERMINALS	SPECIFICATION	CONDITION
INDUCTANCE	(3-2)	8.7 μ H \pm 20%	f=100kHz
	(7-6)	140 μ H Typ.	f=100kHz
DCR	(3-2)	125m Ω Typ.	—
TURNS RATIO	Pri : Sec	1 : 4	—
WITHSTAND VOLTAGE	Pri : Sec	2.5kV	1 minute

*Operation temperatuer range : -40°C to 125°C

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