

Transformers

For EL-Display Lighting
SMD

R-L Series R20-L, R40-L Types

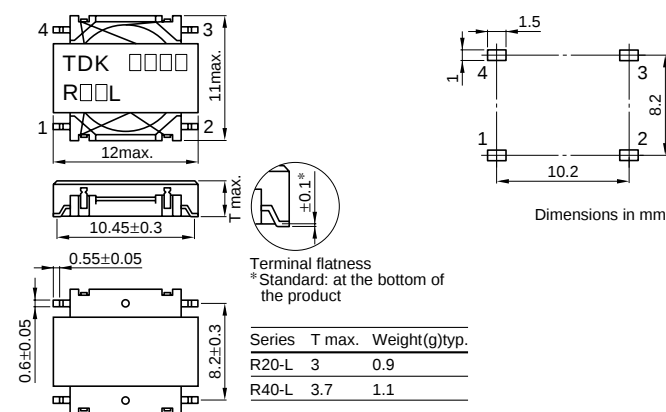
FEATURES

- These low-profile inverter transformers feature a mounting height of 3 and 3.7mm. They are ideal for small liquid crystal displays with thin EL panels.
- The winding terminations and soldering terminals are physically separate. This prevents wire breakage or pin lifting during the mounting process.

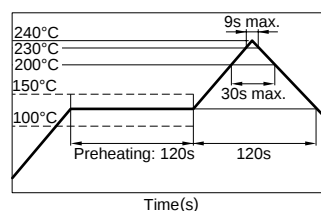
APPLICATIONS

For electroluminescent back lighting.

SHAPES AND DIMENSIONS/TERMINAL CONNECTIONS/ RECOMMENDED PC BOARD PATTERN



RECOMMENDED REFLOW SOLDERING CONDITIONS



ELECTRICAL CHARACTERISTICS

Part No.	Input voltage Edc(V) ±10%	Input current (mA)typ.	Luminance (cd/m ²)	Output voltage Erms(V)	Frequency (kHz) typ.	Display panel area (cm ²)	Applicable EL panel area (cm ²)
R26-L	1.4	35	24	34	1.8	20	6 to 22
R27-L	2.1	38	24	34	1.8	20	6 to 22
R28-L	3	32	24	34	1.8	20	6 to 22
R40-L	3	39	23	37	1.1	32	22 to 40
R41-L	1.4	78	21	36	1	32	22 to 40
R42-L	2.1	49	25	37	1.1	32	22 to 40

- These specifications were measured using the TDK standard EL panel (6.5cm²)
- Refer to "MEASURING CIRCUIT" for the measurement conditions.
- Be aware that characteristics may be different depending on the EL panel.

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TYPICAL ELECTRICAL CHARACTERISTICS

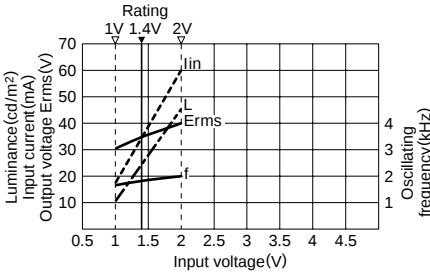
INPUT/OUTPUT CHARACTERISTICS

R20-L TYPE

R26-L

Recommended operating range:

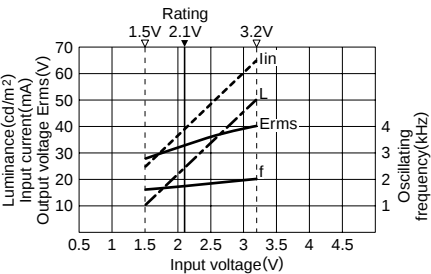
DC.1 to 2V



R27-L

Recommended operating range:

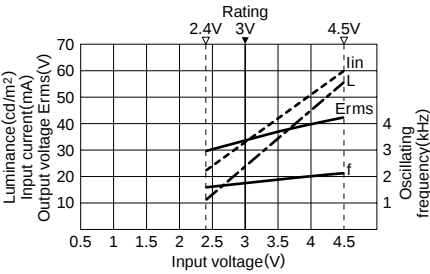
DC.1.5 to 3.2V



R28-L

Recommended operating range:

DC.2.4 to 4.5V

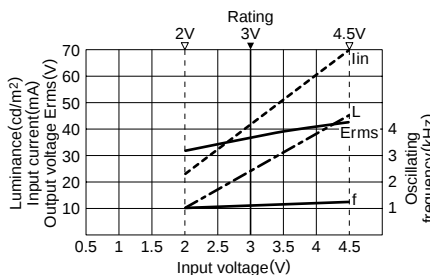


R40-L TYPE

R40-L

Recommended operating range:

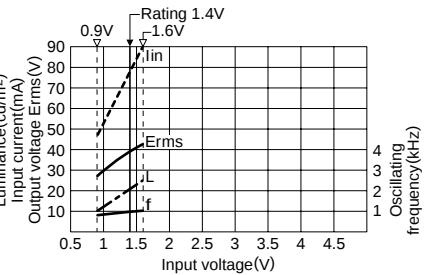
DC.2 to 4.5V



R41-L

Recommended operating range:

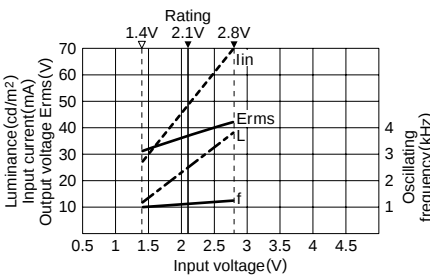
DC.0.9 to 1.6V



R42-L

Recommended operating range:

DC.1.4 to 2.8V



MEASURING CIRCUIT

C2:10μF Rb:30Ω Q:2SC3265Y C1:0.047μF Rc:1200Ω

