PACEL ELECTRONICS LTD.

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TECHNICAL SPECIFICATION

Electroluminescent Cut Up Sheets

PRCEL ELECTROPICS LTD

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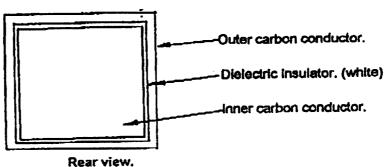
ELECTROLUMINESCENT LAMP. CUT-UP SHEET. INSTRUCTIONS FOR USE.

The contact kit contains: Pacel d-type copper contacts.

Z-axis conductive adhesive tape. (clear)

Kapton insulating tape. (yellow)

Sheet element descriptions.



1/ When cutting the desired lamp shape, ensure that the cut is started from an outside edge and that there is sufficient surface area of the outer carbon conductor to support the contact.

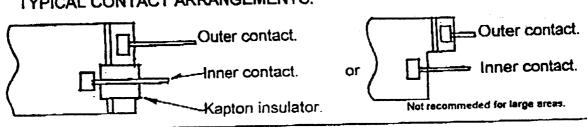
2/ Apply the conductive tape to the blade end of the copper contact, try to keep the release liner in place. Do not allow the tape to roll or fold onto itself, conductivity can only be maintained if the tape is kept flat.

3/ Remove the release liner from the tape and with firm pressure apply the contact/tape assy onto the outer carbon conductor. Check that the contact area does not stray across the dielectric insulator and onto the inner carbon conductor.

4/ Prepare a second contact/tape assy, remove the liner, and apply to the inner carbon conductor. The kapton tape should be used to insulate between this contact and the outer carbon conductor if required.

5/ Suitable inverters to drive the lamps can be supplied by Pacel or Famell Components. Inverters are specified by the surface area of the lamp.

TYPICAL CONTACT ARRANGEMENTS.



Raised by:	NSB Checked by:	S,F Approved by: F.G.
	Dwg No. 008106	Issue: 01



Electroluminescent cut-up sheet.

Technical specifications.

Thickness: 0.25mm

Size: can be cut to any size from sheets supplied provided a portion of peripheral bus bar is retained.

Necessary contacts, insulation, instructions etc., included.

Flexibility: 180° bend around 12mm radius

Colours available: gi

green blue

white

yellow-green

yellow red

Operating voltage: 50 - 200 Vac

Operating frequency: 200 - 2000 Hz Capacitance, static: ~250 pFcm⁻²

dynamic: ~450 pFcm⁻² (d~0.3)

Power consumption: ~12mWcm⁻²

Brightness: 80 V at 400 Hz; 15 - 30 cdm⁻²

115 V at 400 Hz : 30 - 60 cdm⁻² 80 V at 800 Hz : 25 - 50 cdm⁻² 115 V at 800 Hz : 50 - 100 cdm⁻² (dependent on colour)

Variation in brightness over time:

(dependent on voltage and frequency) typically 50% of initial brightness > 3000 hrs useful life > 10 000 hrs

This data is supplied as guide only and may be subject to change at any time.