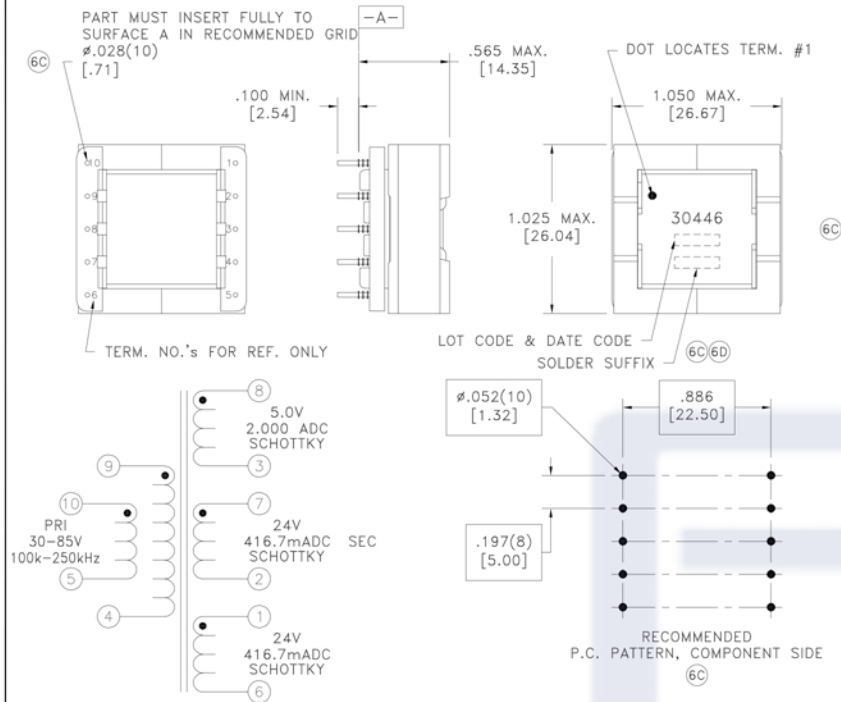


| SOLDER SUFFIX | CUSTOMER TERMINAL | RoHS | LEAD(Pb)-FREE | 6C6D |
|---------------|-------------------|------|---------------|------|
| LF1           | Sn96%, Ag4%       | Yes  | Yes           |      |



# ELECTRICAL SPECIFICATIONS @ 25°C unless otherwise noted:

| PARAMETER          | TEST CONDITIONS                                         | VALUE              |
|--------------------|---------------------------------------------------------|--------------------|
| D.C. RESISTANCE    | 10-5 @20°C                                              | 0.190 ohms max.    |
| D.C. RESISTANCE    | 1-6 @20°C                                               | 0.460 ohms max.    |
| D.C. RESISTANCE    | 8-3 @20°C                                               | 0.020 ohms max.    |
| D.C. RESISTANCE    | 7-2 @20°C                                               | 0.436 ohms max.    |
| D.C. RESISTANCE    | 9-4 @20°C                                               | 0.074 ohms max.    |
| INDUCTANCE         | 9-4 10kHz, 100mVAC, Ls                                  | 66uH $\pm 10\%$    |
| LEAKAGE INDUCTANCE | 9-4 tie(8+3, 7+2, 10+5, 4+5, 10+9), 100kHz, 100mVAC, Ls | 650nH typ.         |
| DIELECTRIC         | PRI-SEC 625VAC, 1 second                                | 500VAC, 1 minute   |
| URNS RATIO         | (10-5):(9-4)                                            | 1:1, $\pm 1\%$     |
| URNS RATIO         | (1-6):(9-4)                                             | 1.6:1, $\pm 1\%$   |
| URNS RATIO         | (7-2):(9-4)                                             | 1.6:1, $\pm 1\%$   |
| URNS RATIO         | (9-4):(8-3)                                             | 2.778:1, $\pm 1\%$ |

6D GENERAL SPECIFICATIONS:  
 6D OPERATING TEMPERATURE RANGE: -40°C to +125°C including temp rise.

## TRANSFORMER INFORMATION:

|                                   |        |
|-----------------------------------|--------|
| Pout max.:                        | 30.00W |
| Pout min.:                        | 7.20W  |
| Estimated Temp. Rise @ Pout max.: | 44.0°C |
| Estimated Efficiency:             | 74%    |
| Estimated Maximum Duty Cycle:     | 34.2%  |

## SWITCH SELECTION INFORMATION

|                              |                   |
|------------------------------|-------------------|
| Input Voltage Range:         | 30-85V            |
| Peak Current:                | 4.9A              |
| Vsw @ Rated Output Voltages: | 100 + (Vmax - 85) |
| Operating Frequency:         | 100k-250kHz       |

Transformer will operate in Discontinuous Mode below Minimum Specified Output Voltage of Pout Min.  
 Pout min. varies with frequency of switcher (from 100 to 250kHz)  
 Pout Min = 720.0/(Frequency in kHz) Watts.

DETAILS SUBJECT TO CHANGE

| REV. | DATE | Packaging Specifications | CONVENTION PLACEMENT | Tolerances unless otherwise specified:<br>Angles: $\pm 1^\circ$<br>Fractions: $\pm 1/64$ | Decimals: $\pm .005$ [.13]<br>Footprint: $\pm .001$ [.03] | DRAWING TITLE<br><b>TRANSFORMER</b> | PART NO.<br>FKS30446-LF1 | 6C6D |
|------|------|--------------------------|----------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------|--------------------------|------|
| 6F   | 8/19 | Method: Tray<br>PKG-0819 |                      |                                                                                          |                                                           |                                     |                          |      |
| 6E   | 2/13 |                          |                      |                                                                                          |                                                           |                                     |                          |      |
| 6D   | 2/12 |                          |                      |                                                                                          |                                                           |                                     |                          |      |
| 6C   | 3/05 |                          |                      |                                                                                          |                                                           |                                     |                          |      |

This drawing is dual dimensioned. Dimensions in brackets are in millimeters.

eiSos p/n: FKS750030446



SPECIFICATION SHEET 1 OF 1