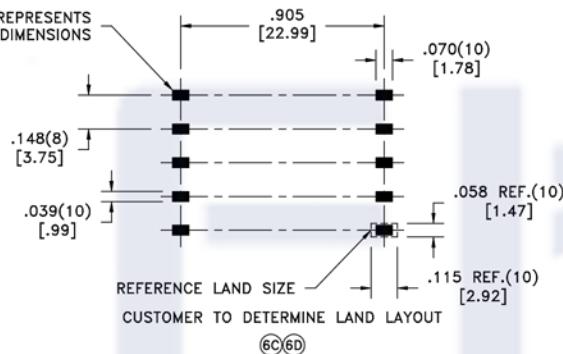
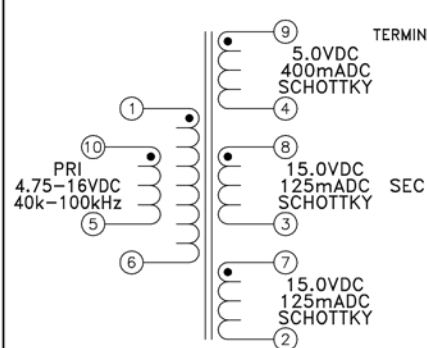
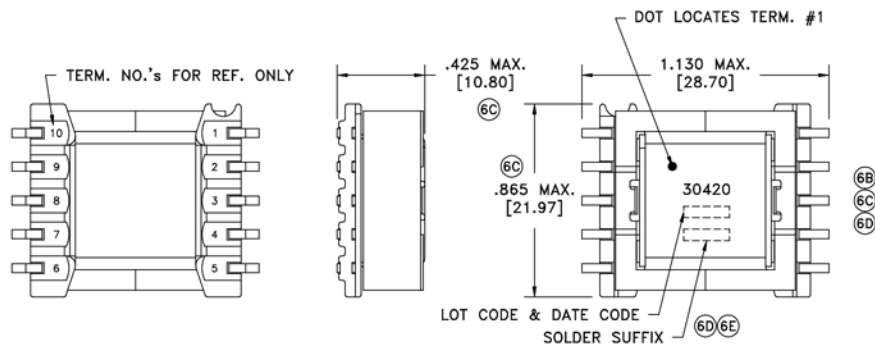


| SOLDER SUFFIX | CUSTOMER TERMINAL | RoHS | LEAD(Pb)-FREE | 6E |
|---------------|-------------------|------|---------------|----|
| LF3           | Sn100%            | Yes  | Yes           |    |



#### ELECTRICAL SPECIFICATIONS @ 25°C unless otherwise noted:

| PARAMETER          | TEST CONDITIONS                                        | VALUE            |
|--------------------|--------------------------------------------------------|------------------|
| D.C. RESISTANCE    | 1-6 @20°C                                              | 0.058 ohms max.  |
| D.C. RESISTANCE    | 9-4 @20°C                                              | 0.063 ohms max.  |
| D.C. RESISTANCE    | 8-3 @20°C                                              | 0.703 ohms max.  |
| D.C. RESISTANCE    | 7-2 @20°C                                              | 0.734 ohms max.  |
| D.C. RESISTANCE    | 10-5 @20°C                                             | 0.076 ohms max.  |
| INDUCTANCE         | 1-6 10kHz, 100mVAC, Ls                                 | 26.8uH ±5%       |
| LEAKAGE INDUCTANCE | 1-6 tie(9+4, 8+3, 7+2, 10+1, 5+6), 100kHz, 100mVAC, Ls | 245nH typ.       |
| DIELECTRIC         | PRI SEC 625VAC, 1 second                               | 500VAC, 1 minute |
| TURNS RATIO        | (1-6):(9-4)                                            | 1:1, ±1%         |
| 6E TURNS RATIO     | (8-3):(1-6)                                            | 2.83:1, ±1%      |
| 6E TURNS RATIO     | (7-2):(1-6)                                            | 2.83:1, ±1%      |
| TURNS RATIO        | (1-6):(10-5)                                           | 1:1, ±1%         |

#### GENERAL SPECIFICATIONS:

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

#### TRANSFORMER INFORMATION:

|                                   |        |
|-----------------------------------|--------|
| Pout max.:                        | 5.75W  |
| Pout min.:                        | 2.83W  |
| Estimated Temp. Rise @ Pout max.: | 22.6°C |
| Estimated Efficiency:             | 74.1%  |
| Estimated Maximum Duty Cycle:     | 57.3%  |

#### SWITCH SELECTION INFORMATION

|                              |                  |
|------------------------------|------------------|
| Input Voltage Range:         | 4.75-16V         |
| Peak Current:                | 4.876A           |
| Vsw @ Rated Output Voltages: | 22 + (Vmax - 16) |
| Operating Frequency:         | 40k-100kHz       |

Transformer will operate in Discontinuous Mode below Minimum Specified Output Voltage of Pout Min.  
Pout min. varies with frequency of switcher (from 40k to 100kHz).  
Pout Min = 283.0/(Frequency in kHz) Watts.

DETAILS SUBJECT TO CHANGE

6B/6C

| REV. | DATE | Packaging Specifications | Tolerances unless otherwise specified:  | DRAWING TITLE      | PART NO.      |
|------|------|--------------------------|-----------------------------------------|--------------------|---------------|
| 6E   | 2/12 | Method: Tape & Reel      | Angles: ±1°                             | <b>TRANSFORMER</b> | FKS30420R-LF3 |
| 6D   | 1/03 | PKG-0267                 | Decimals: ±.005 [.13]                   |                    |               |
| 6C   | 9/00 |                          | Fractions: ±1/64 Footprint: ±.005 [.13] |                    |               |
| 6B   | 6/98 |                          |                                         |                    |               |



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

eiSos p/n: FKS750030420



SPECIFICATION SHEET 1 OF 1