

NOTES:

1. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: +11.5 TO +13.0 VOLTS DC

INPUT CURRENT: NO LOAD: <75MA TYPICAL, <100MA MAX
FULL LOAD: <100MA TYPICAL, <150MA MAX

INDEFINITE SHORT CIRCUIT PROTECTED

MAXIMUM INPUT CURRENT WITH OUTPUT SHORTED TO GROUND:
<250MA TYPICAL, <350MA MAX

PROGRAMMING VOLTAGE: 0 TO +4.95V=0 TO 2,000V OUT

PROGRAM INPUT CURRENT: 50UA TYPICAL, <100UA MAX

REFERENCE OUTPUT: 5.0V

TOLERANCE: <1% TYPICAL, <2% MAX

REFERENCE OUTPUT CURRENT: 1MA MAX (MIN POT VALUE: 5K)

TEMPERATURE COEFFICIENT: 25PPM/C TYP, 100PPM/C MAX

OUTPUT VOLTAGE: 0 TO +2,000 VOLTS

OUTPUT CURRENT: 0 TO 200UA

OUTPUT RIPPLE (@ 2000V, FULL LOAD): <0.0005% TYP, <0.001% MAX

TURN ON TIME (IN RESPONSE TO 0 TO 5V PROGRAMMING SIGNAL):
75MS TYP, <200MS MAX, 0 TO 95%

OUTPUT LINEARITY: <0.2% TYP, <1% MAX (10% TO 100%)

ACCURACY RELATIVE TO CONTROL VOLTAGE:
<0.2% TYP, <2.5% MAX (10% TO 100%)OUTPUT VOLTAGE LOAD REGULATION (NO LOAD TO FULL LOAD):
<0.005% TYP, <0.05% MAX @ 2,000VOUTPUT VOLTAGE LINE REGULATION (11.5V TO 13.0V):
<0.0025% TYP, <0.01% MAXOUTPUT VOLTAGE TEMPERATURE COEFFICIENT:
30PPM/C TYP, 70PPM/C MAXOUTPUT VOLTAGE STABILITY (AT 2,000V OUT, FULL LOAD, 25C):
SHORT TERM (1 HOUR): <0.05% TYP, <0.1% MAX
LONG TERM (8 HOURS): <0.005%/HR TYP,
<0.025%/HR MAX AFTER WARM UP

VOLTAGE MONITOR: 0 TO +4.95V

ACCURACY (10% TO 100% V OUT): <0.05% TYP, <1.0% MAX

TEMPERATURE COEFFICIENT: 50PPM/C TYP, 100PPM/C MAX

STABILITY (@2,000V OUT, FULL LOAD, 25C AMBIENT):
SHORT TERM (1 HOUR): <0.05% TYP, <0.1% MAX
LONG TERM (8 HOURS): <0.01% TYP, <0.05%/HR MAX

OUTPUT CURRENT: 0 TO 1MA

OPERATING TEMPERATURE: 0 TO +50C

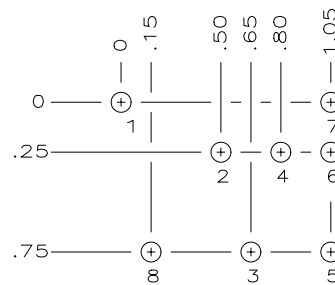
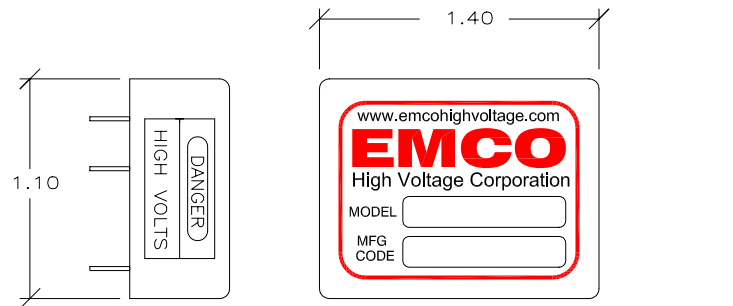
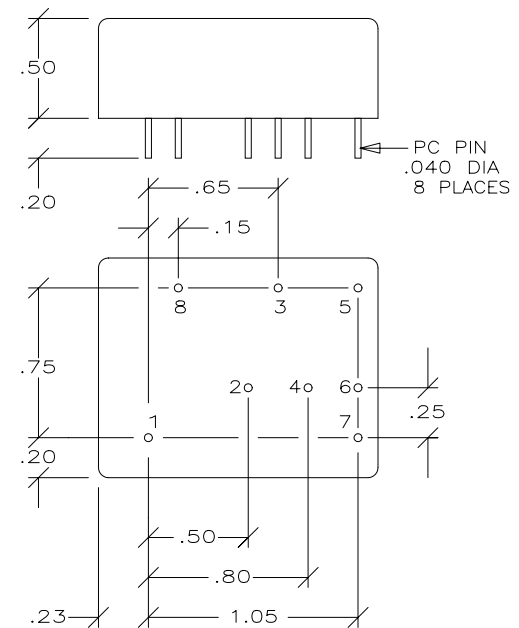
STORAGE TEMPERATURE: -25 TO +90C

2. DIMENSIONAL TOLERANCES: +/- .03

3. UNIT WEIGHT: 1.1 OZ (31 GRAMS)

4. CONSTRUCTION: DRAWN STEEL BOX,
SOLID ENCAPSULATION

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	SPEC UPDATE; EFF SN 1 & UP	11.22.99	DH/MD

PC LAYOUT PATTERN
COMPONENT SIDE

PIN #	FUNCTION
1	HIGH VOLTAGE OUTPUT
2	PROGRAMMING
3	GROUND
4	VOLTAGE REFERENCE 5V
5	CASE GROUND
6	+INPUT
7	VOLTAGE MONITOR: 0 TO 5V
8	OUTPUT RETURN

EMCO HIGH VOLTAGE CORP.
www.emcohighvoltage.comOUTLINE & SPECIFICATIONS
MODEL 9871

		INT	DATE
		DWN DFH	9-1-99
		CHK MJD	9-1-99
		ENGR	
-----	9871		
NEXT ASSY	USED ON		
APPLICATION		DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING	

SIZE	FSCM	DWG#	REV
A	3T243	9871	A
SCALE NONE		SHEET 1 OF 1	