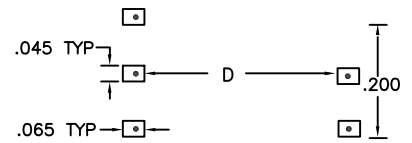


SUGGESTED LAY-OUT PATTERN SURFACE MOUNT & PLUG-IN



400 Hz				
PART#	Ein	Eout mA	Zin	Size
LB101	115	6.0	5	1.0M 2
LB102	115	6.0	8	1.0M 4
LB103	26	6.0	1	0.1M 1
LB104	26	6.0	6	0.1M 2
LB105	26	6.0	2	0.1M 3
LB106	26	6.0	9	0.1M 4
LB107	40	2.0	6	0.5M 3
LB108	11.8	2.0	4	50K 1
LB109	11.8	2.0	19	25K 2
LB110	11.8	2.0	6	50K 3
LB111	11.8	2.0	30	15K 4
LB112	26	2.0	4	0.1M 1
LB113	26	2.0	19	0.1M 2
LB114	26	2.0	6	0.1M 3
LB115	26	2.0	30	0.1M 4

PART#	Ein	Eout mA	Zin	Size
LB116	11.8	6.0	1	50K 1
LB117	11.8	6.0	6	25K 2
LB118	11.8	6.0	3	50K 3
LB119	11.8	6.0	9	15K 4
LB120				0.1M 3
LB121				0.1M 4
LB122				0.5M 3
LB123				50K 1
LB123				25K 2
LB124				50K 3
LB125				15K 4
LB126				0.1M 1
LB127				0.1M 2
LB128				0.1M 3
LB129				0.1M 4

DIM	SIZE			
	1	2	3	4
SURFACE MTG				
A	.513	.513	.655	.655
B	.440	.440	.570	.570
C	.190	.300	.190	.300
D	.413	.413	.555	.555
PLUG IN				
A	.450	.450	.600	.600
B	.440	.440	.570	.570
C	.180	.290	.180	.290
D	.385	.385	.535	.535

THE ABOVE TRANSFORMERS ARE AVAILABLE AND ILLUSTRATE SIZE VS PERFORMANCE. BECAUSE OF THEIR SMALL SIZE, EXCESSIVE REGULATION SHOWS UP BEFORE EXCESSIVE TEMPERATURE RISE. SIZES SHOWN LIMIT REGULATION TO 10%. CERTAINLY TWO OR THREE TIMES THE CURRENT CAN BE SUPPORTED, AT 20%/30% REGULATION. THE NET EFFECT WOULD BE THAT THE INDICATED OUTPUT VOLTAGES WOULD DROP BY 10/20%.

TRANSFORMERS ARE A VOLT/TIME PRODUCT. THE ABOVE UNITS CAN BE USED AT APPRECIABLY HIGHER FREQUENCIES. AN ULTRA SAFE RULE OF THUMB WOULD BE THAT THE INPUT (AND OUTPUT) VOLTAGES CAN BE RAISED BY THE SQUARE ROOT OF THE INCREASE IN FREQUENCY OF OPERATION.

WHEN REDUCING FREQUENCY, REDUCE VOLTAGES DIRECTLY PROPORTIONAL TO THE DROP IN FREQUENCY.

THE NET EFFECT OF INCREASING FREQUENCY IS A POSSIBLE VAST INCREASE IN OUTPUT POWER (THE NEW VOLTAGE TIMES THE RATED CURRENT). EVEN THE CURRENT CAN BE INCREASED AS THE TABLE VOLTAGE DROP WAS 10% OF THE 400 Hz VOLTAGE. INCREASING THE FREQUENCY TO 10KHz WOULD ALLOW FIVE TIMES THE VOLTAGES, AND THEREFORE ONE FIFTH THE REGULATION. AT THIS POINT TEMPERATURE RISE AND MAXIMUM BREAKDOWN VOLTAGE MIGHT GOVERN, RATHER THAN REGULATION. 150 VOLT OPERATION IS SAFE. CONTACT THE FACTORY.

NOTE THAT LB101 & 2 ARE NOT MADE IN SIZES A&C. AT 400 Hz THE NUMBER OF TURNS TO SUPPORT 115 VOLTS IS SO LARGE THAT IT PRECLUDES SIZES A & C. THE 26 VOLT UNIT, LB103, IS THE HIGHEST VOLTAGE UNIT FOR SIZE A. SIZE C CAN SUPPORT 40 VOLTS, AT 400 Hz.

THERE ARE SIX TERMINALS. ALL CAN BE USED. USING 5, PER ABOVE, WOULD HAVE TERMINAL 2 AS A DUMMY. THE REMOVAL OF TERMINAL 4 PREVENTS ANY DAMAGE FROM REVERSE PLACEMENT.

THE ABOVE ARE JUST SOME OF THE PARTS WE MAKE. MOST ARE CUSTOM DESIGNED TO CUSTOMER SPECIFICATIONS.

CONDITIONS: CHANGES AND IMPROVEMENTS WILL BE MADE. USER MUST DETERMINE SUITABILITY AND ACCEPTS SUCH RESPONSIBILITY.
 TERMINALS: THERMAL SOLDERING ONLY. CONDUCTIVE ADHESIVE SOLDERING ON SPECIAL ORDER.
 MARKING ORIENTATION IS MAINTAINED INSIDE TAPE AND REEL PACKAGE. DO NOT WASH UNITS IN IMPURE WATER.

D: 01MAR04. SIZES NOW #
 C: 14OCT03. ADDED LB112-9.
 B: 17APR03. NOW mA.
 E: 10NOV04. PIN COMMENTS.

FILED AS: I:\ACAD\OUTLINE\LB1XY, BACKUP AS LB1XY\BU. PREVIOUS AS \LB1XY.OLD.

REV: E: 10NOV04. PIN COMMENTS.

UNLESS OTHERWISE SPECIFIED	DRAW: JP	MAT:	BG LABORATORIES INCORPORATED 75 TRAVIS AVE, BINGHAMTON, NY 13904 PH 607-722-2376 FAX 607-722-4204
INCHES FINISH: ✓	1st APP:	SCALE: 2x	
XXXX ± .001 x ± .010	2nd APP: HB	SIZE: A	
XXX ± .005 ANGLE ±	DATE: 10 NOV 04	REV-CHGS: E	
XX ± .020 FRAC ±	CODE ID: 26522	SHEET 1 OF 1	
OUTLINE DRAWING			LB1XY