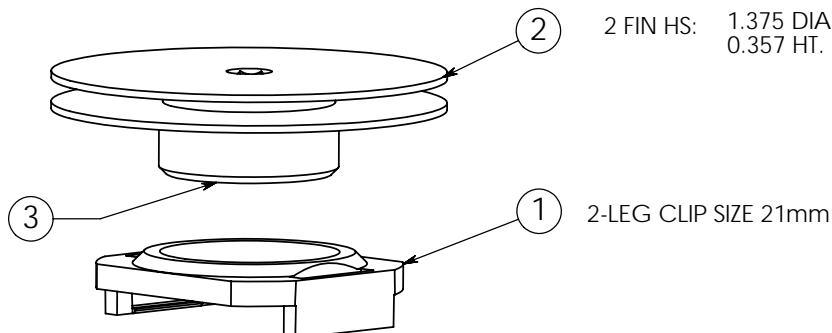


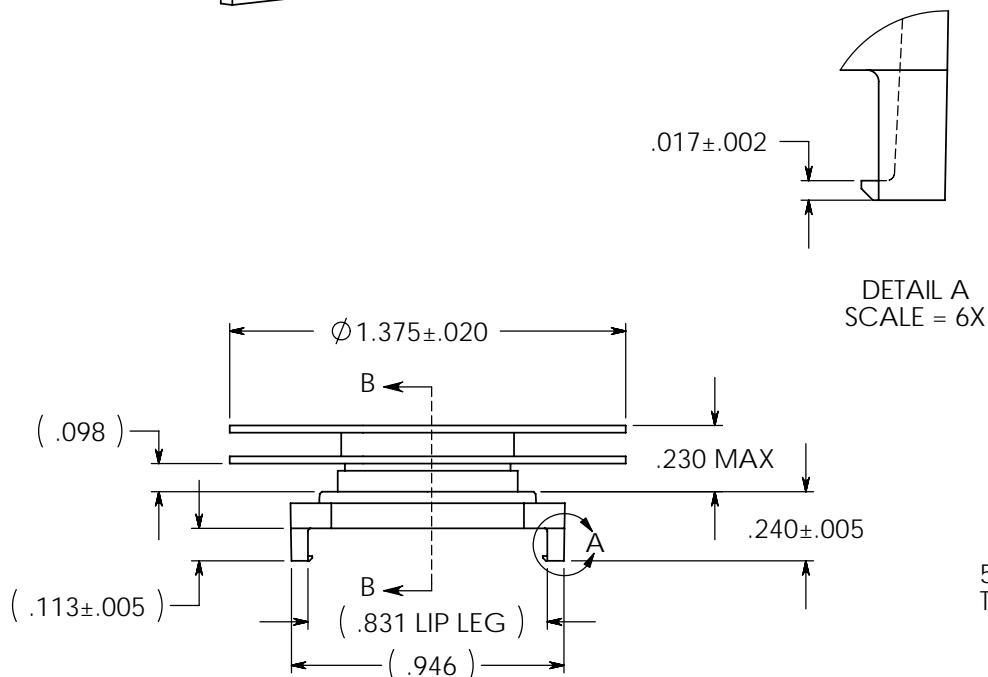
8 7 6 5 4 3 2 1

REVISION(S)

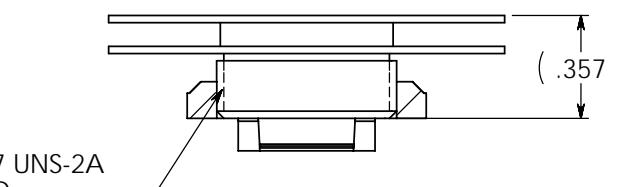
LTR	DESCRIPTION	INIT	APP'D
O	ECN: OS60-0095-04	E.T 04/13/04	B.P 04/19/04
A	ECR-06-013536	E.T 6/6/06	V.K 6/6/06

2 FIN HS: 1.375 DIA.
0.357 HT.

2-LEG CLIP SIZE 21mm



.017±.002

DETAIL A
SCALE = 6X5/8 - 27 UNS-2A
THREAD

NOTE:

1. MATERIAL:

HEAT SINK: ALUM. (BLACK ANODIZE)
CLIP: BLACK PEI (UL94-VO)2. BEFORE THE HEATSINK APPLICATION, THE USER
SHOULD IDENTIFY THE SPECIFICATION OF MAXIMUM
LOAD ON THE BGA PACKAGE.

HEATSINK TORQUE SPECIFICATIONS CONVERTED TO FORCE.

BARE DIE PACKAGE:

1.5 INCH - LB TORQUE = 8.5 LBS FORCE
2.0 INCH - LB TORQUE = 11.4 LBS FORCE

FULL SIZE LID PACKAGE:

1.5 INCH - LB TORQUE = 8.3 LBS FORCE
2.0 INCH - LB TORQUE = 11.1 LBS FORCE

3. REMOVE CLIP WITH REMOVAL TOOL P/N: 1542616-1.

4. RoHS COMPLIANT AND CERTIFIED.

Power	° C/W @ Ambient	° C/W @ 200 LFM	° C/W @ 400 LFM	° C/W @ 600 LFM
5 Watts	13.43	7.22	4.85	4.05
10 Watts	12.23	7.08	4.67	3.96
15 Watts	11.26	7.24	4.70	3.92

CUSTOMER DRAWING

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ITEM	DESCRIPTION	QTY	DO NOT SCALE	tyco / Electronics Attleboro Falls Massachusetts 02763				CONFIDENTIAL PROPERTY OF TYCO ELECTRONICS. NOT TO BE PROVIDED TO OTHERS. REPRODUCED OR USED FOR ANY PURPOSES EXCEPT AS AUTHORIZED IN WRITING BY AN AUTHORIZED OFFICIAL OF TYCO. MUST BE RETURNED TO TYCO ON REQUEST. ON COMPLETION OF ORDERS OR OTHER PURPOSES FOR WHICH LENT.	TITLE: 21mm HEATSINK ASSEMBLY (HTS651-U)	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	DRAWN BY:	DATE		MATERIAL:	SEE NOTE	FINISH:	DIMENSIONS ARE IN: INCHES	SCALE: 1.5:1	PART NO: 1-1542005-1	SHEET: 1 OF 1
1	MOUNTING CLIP	1		XX ± .	E.TAO	04/13/04				
2	HEAT SINK	1		XXX ± .	B. PETROCELLI	04/19/04				
3	INTERFACE	1		XXXX ± . ANGLES ± *	FILENAME	PROJECT	SYSTEM	SEE NOTE		

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1

A

D

C

B

A

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[1-1542005-1](#)