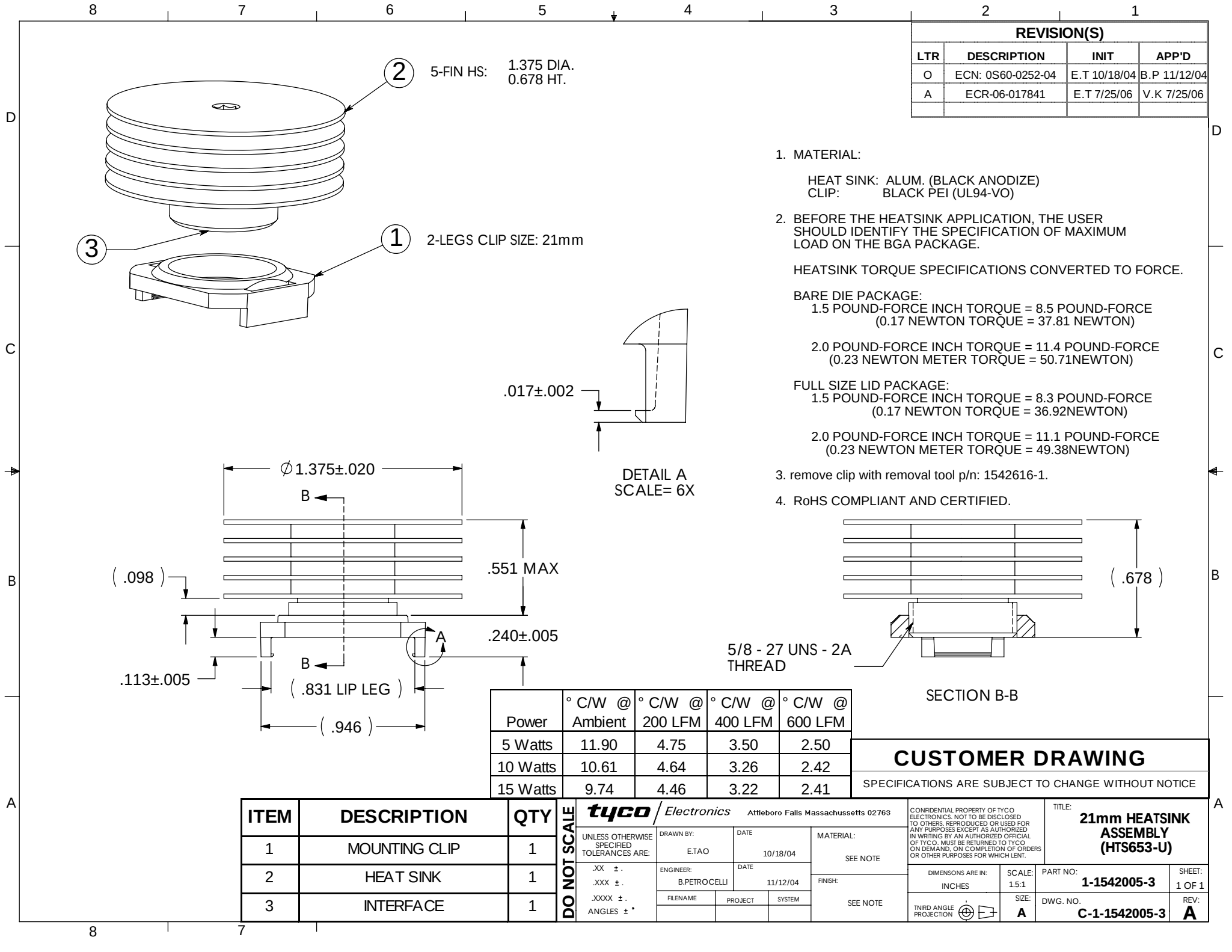




REVISION(S)			
LTR	DESCRIPTION	INIT	APP'D
O	ECN: 0S60-0252-04	E.T 10/18/04	B.P 11/12/04
A	ECR-06-017841	E.T 7/25/06	V.K 7/25/06

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 POUND-FORCE INCH TORQUE = 8.5 POUND-FORCE
(0.17 NEWTON TORQUE = 37.81 NEWTON)

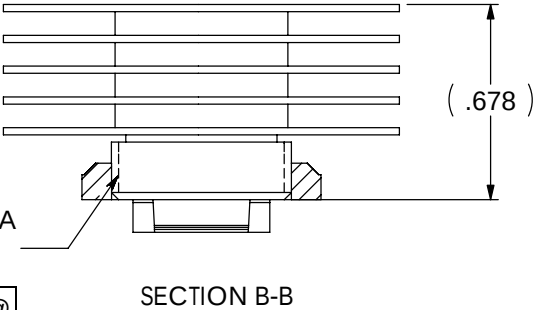
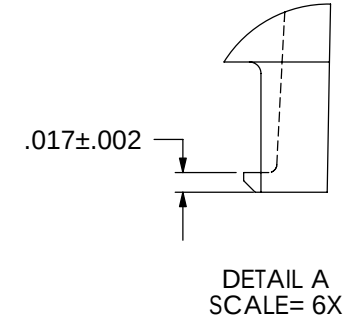
2.0 POUND-FORCE INCH TORQUE = 11.4 POUND-FORCE
(0.23 NEWTON METER TORQUE = 50.71NEWTON)

FULL SIZE LID PACKAGE:
1.5 POUND-FORCE INCH TORQUE = 8.3 POUND-FORCE
(0.17 NEWTON TORQUE = 36.92NEWTON)

2.0 POUND-FORCE INCH TORQUE = 11.1 POUND-FORCE
(0.23 NEWTON METER TORQUE = 49.38NEWTON)

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	11.90	4.75	3.50	2.50
10 Watts	10.61	4.64	3.26	2.42
15 Watts	9.74	4.46	3.22	2.41

ITEM	DESCRIPTION	QTY	DO NOT SCALE	tyco / Electronics Attleboro Falls Massachusetts 02763				CONFIDENTIAL PROPERTY OF TYCO ELECTRONICS. NOT TO BE DISCLOSED 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 DEMAND, ON COMPLETION OF ORDERS OR OTHER PURPOSES FOR WHICH LENT.			TITLE: 21mm HEATSINK ASSEMBLY (HTS653-U)	
1	MOUNTING CLIP	1		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	DRAWN BY: E.TAO	DATE 10/18/04	MATERIAL: SEE NOTE					
2	HEAT SINK	1		.XX ± . .XXX ± . .XXXX ± . ANGLES ± °	ENGINEER: B.PETROCELLI	DATE 11/12/04	FINISH:					
3	INTERFACE	1		FILENAME	PROJECT	SYSTEM	SEE NOTE	DIMENSIONS ARE IN: INCHES	SCALE: 1.5:1	PART NO: 1-1542005-3	SHEET: 1 OF 1	
								TNIRD ANGLE PROJECTION 	SIZE: A	DWG. NO. C-1-1542005-3	REV: A	

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