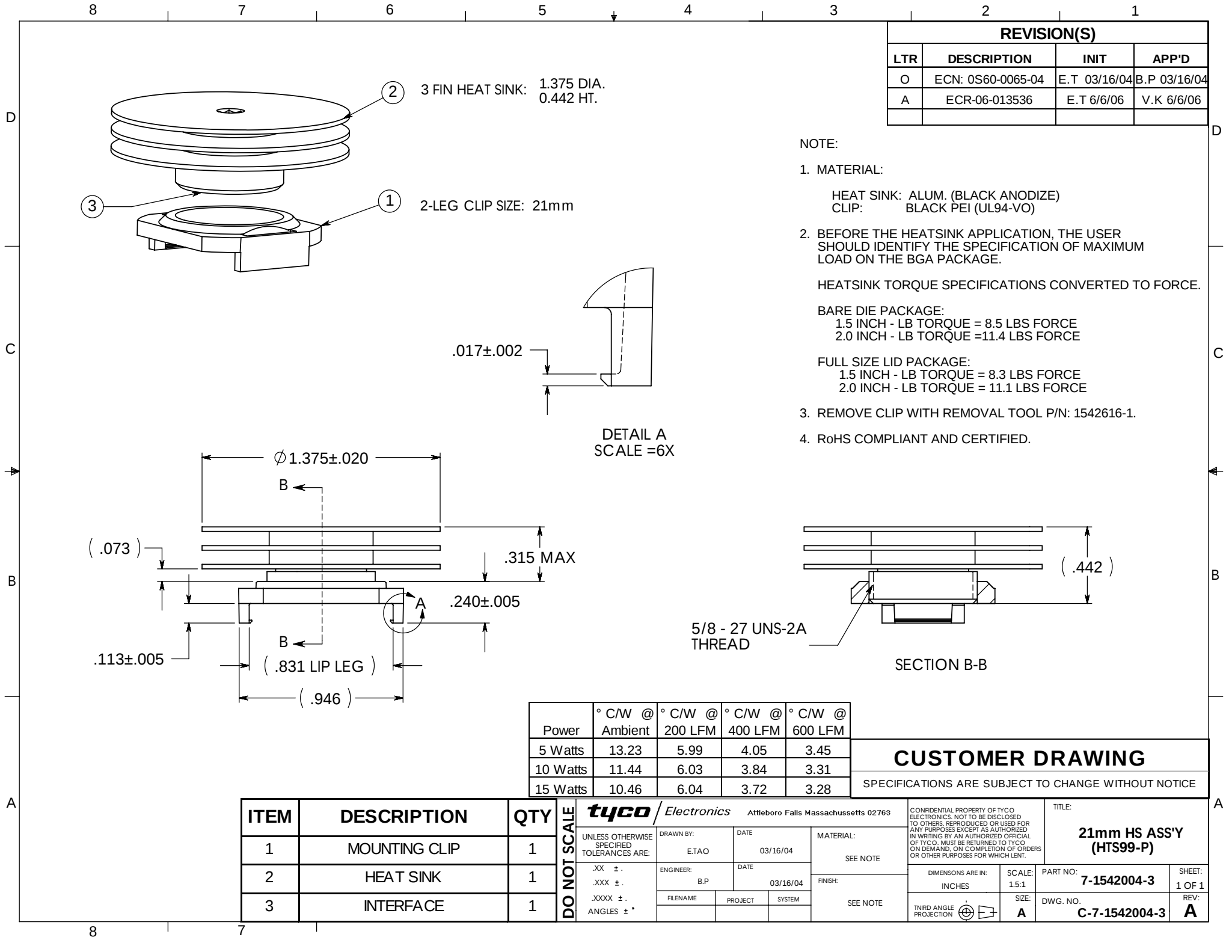




REVISION(S)			
LTR	DESCRIPTION	INIT	APP'D
O	ECN: 0S60-0065-04	E.T 03/16/04	B.P 03/16/04
A	ECR-06-013536	E.T 6/6/06	V.K 6/6/06

- 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	13.23	5.99	4.05	3.45
10 Watts	11.44	6.03	3.84	3.31
15 Watts	10.46	6.04	3.72	3.28

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 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 HS ASS'Y (HTS99-P)			
1	MOUNTING CLIP	1		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	DRAWN BY: E.TAO		DATE: 03/16/04		MATERIAL: SEE NOTE		DIMENSIONS ARE IN: INCHES	SCALE: 1.5:1	PART NO: 7-1542004-3	SHEET: 1 OF 1
2	HEAT SINK	1		.XX ± . .XXX ± . .XXXX ± . ANGLES ± °	ENGINEER: B.P		DATE: 03/16/04		FINISH: SEE NOTE					
3	INTERFACE	1		FILENAME		PROJECT		SYSTEM		THIRD ANGLE PROJECTION 	SIZE: A	DWG. NO. C-7-1542004-3	REV: A	