

REVISION(S)			
LTR	DESCRIPTION	INIT	APP'D
A	ECR-06-021564	E.T 9/18/06	V.K 9/18/06

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:

2.0 POUND-FORCE INCH TORQUE = 8.1 POUND-FORCE  
(0.23 NEWTON METER TORQUE = 36.03 NEWTON)

2.5 POUND-FORCE INCH TORQUE = 10.1 POUND-FORCE  
(0.28 NEWTON METER TORQUE = 44.93 NEWTON)

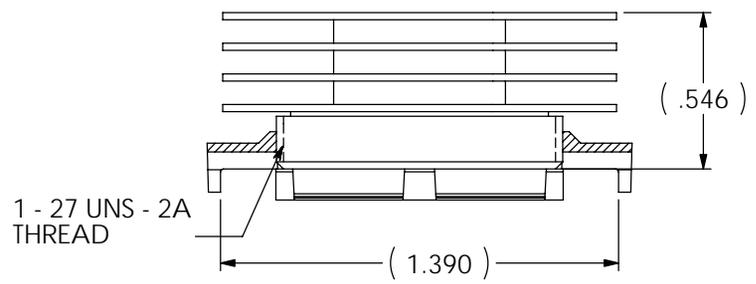
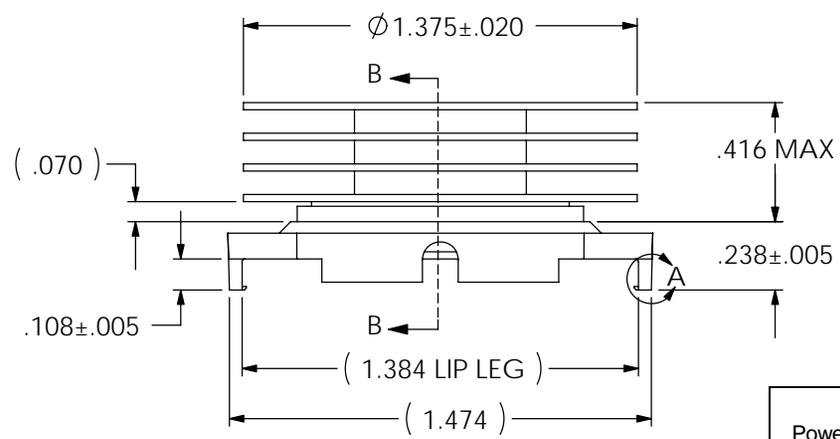
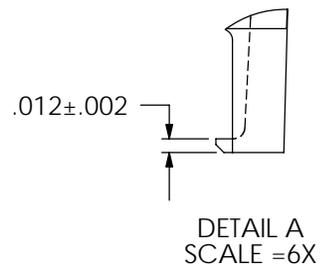
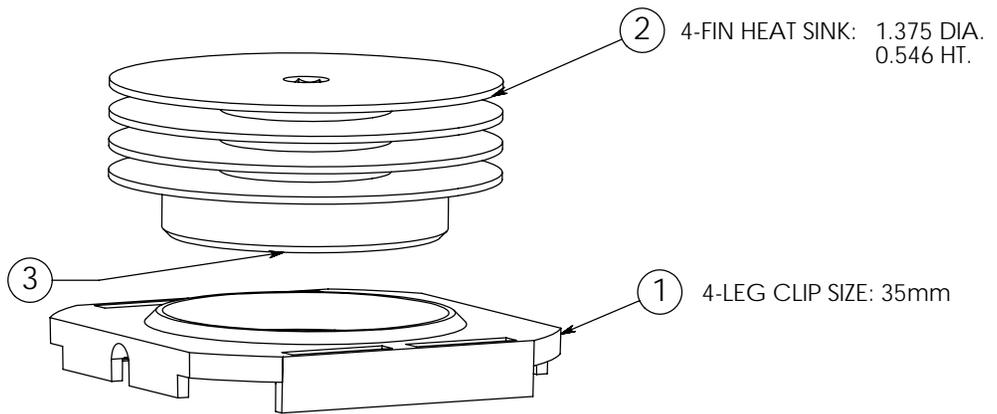
FULL SIZE LID PACKAGE:

2.0 POUND-FORCE INCH TORQUE = 6.9 POUND-FORCE  
(0.23 NEWTON METER TORQUE = 30.69 NEWTON)

2.5 POUND-FORCE INCH TORQUE = 8.7 POUND-FORCE  
(0.28 NEWTON METER TORQUE = 38.70 NEWTON)

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	10.81	4.79	3.30	2.15
10 Watts	9.81	4.89	3.34	2.30
15 Watts	9.13	5.11	3.45	2.40

**CUSTOMER DRAWING**

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ITEM	DESCRIPTION	QTY
1	MOUNTING CLIP	1
2	HEAT SINK	1
3	INTERFACE	1

**tyco** / Electronics    Attleboro Falls Massachusetts 02763

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:  
.XX ±  
.XXX ±  
.XXX ±  
ANGLES ± °

DRAWN BY: E.TAO    DATE: 9/12/06  
ENGINEER: V. KHEIL    DATE: 9/12/06

MATERIAL: SEE NOTE  
FINISH: SEE NOTE

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DIMENSIONS ARE IN: INCHES  
SCALE: 1.5:1  
SIZE: A

TITLE: **35mm HEATSINK ASSEMBLY (HTS419-P)**

PART NO: **3-1542002-5**

DWG. NO. **C-3-1542002-5**

SHEET: 1 OF 1  
REV: A