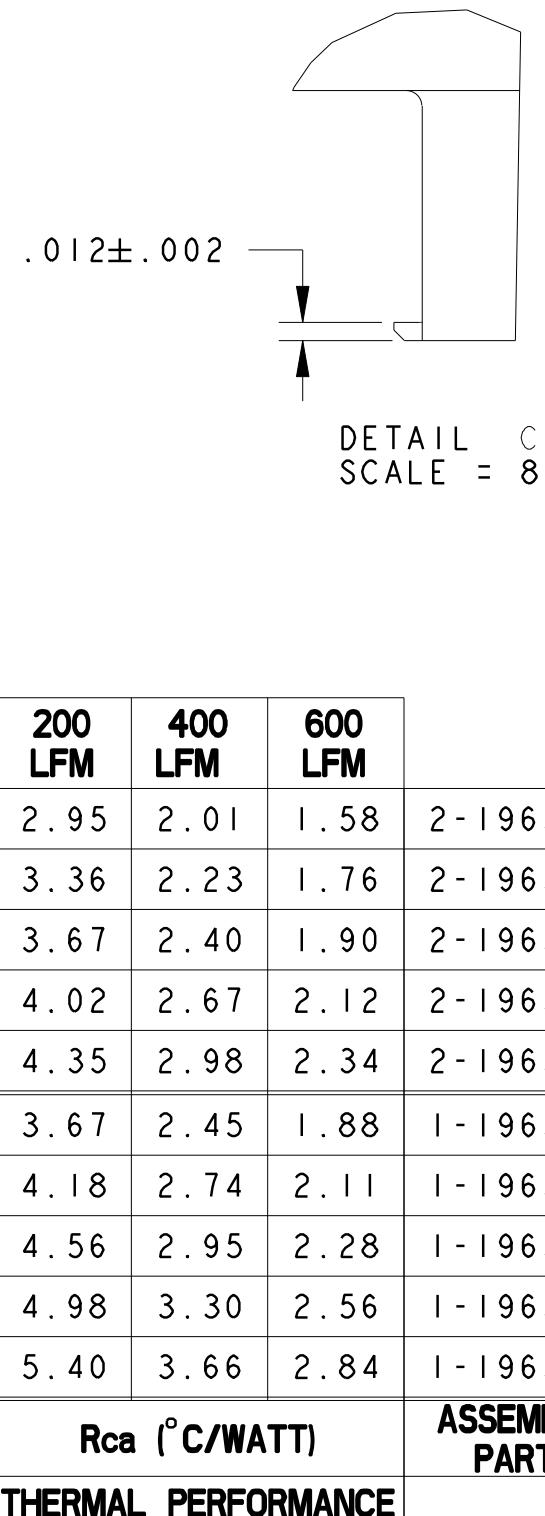
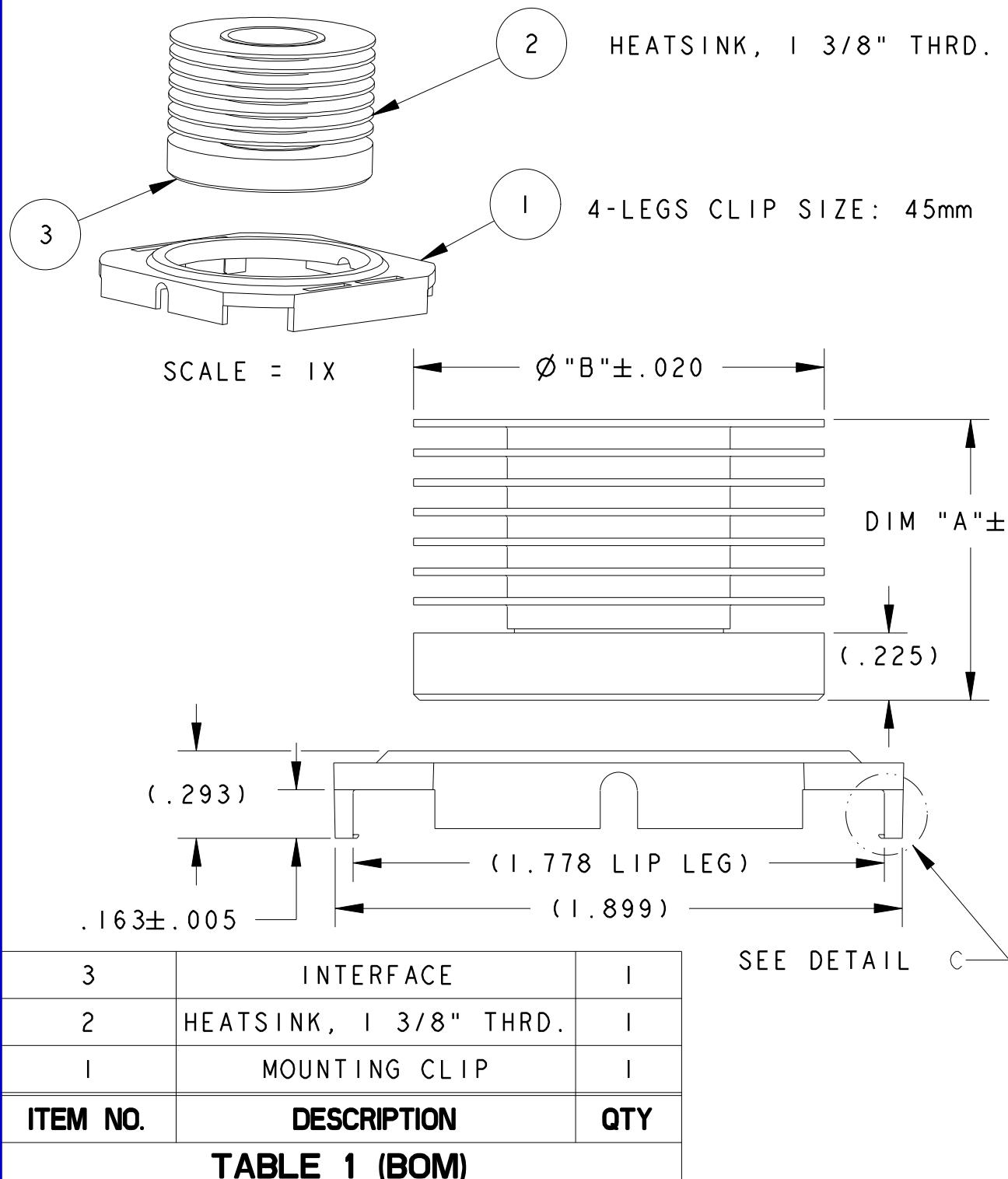


**CUSTOMER DRAWING**  
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



1. MATERIAL:

HEAT SINK: ALUMINUM  
CLIP: BLACK PEI (UL94-VO)

2. BEFORE THE HEATSINK APPLICATION, THE USER SHOULD IDENTIFY THE SPECIFICATION OF MAXIMUM LOAD ON THE BGA PACKAGE.

SCREW DRIVER SLOT (.070 WIDE X .100 DEEP) PROVIDED IN THE CENTER PORTION OF THE HEAT SINK. FOR ACCURATE TORQUE SETTING, SCREW DRIVER BIT MUST BE ALIGNED TO THE CENTER LINE OF THE HEAT SINK.

HEATSINK TORQUE SPECIFICATIONS CONVERTED TO FORCE. BARE DIE PACKAGE:

2.5 POUND-FORCE INCH TORQUE = 7.8 POUND-FORCE (0.28 NEWTON METER TORQUE = 34.70 NEWTON)

3.0 POUND-FORCE INCH TORQUE = 9.4 POUND-FORCE (0.34 NEWTON METER TORQUE = 41.81 NEWTON)

FULL SIZE LID PACKAGE:

2.5 POUND-FORCE INCH TORQUE = 6.3 POUND-FORCE (0.28 NEWTON METER TORQUE = 28.02 NEWTON)

3.0 POUND-FORCE INCH TORQUE = 7.6 POUND-FORCE (0.34 NEWTON METER TORQUE = 33.81 NEWTON)

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

4. RoHS COMPLIANT AND CERTIFIED.

200 LFM	400 LFM	600 LFM	ASSEMBLY HS PART NO.		DESCRIPTION	Ø "B"	DIM "A"	
2.95	2.01	1.58	2-1963563-7	Ø2.000" HS, 1 3/8" THRD. 7 FINS	2.000	.940		
3.36	2.23	1.76	2-1963563-5	Ø2.000" HS, 1 3/8" THRD. 5 FINS	2.000	.740		
3.67	2.40	1.90	2-1963563-4	Ø2.000" HS, 1 3/8" THRD. 4 FINS	2.000	.640		
4.02	2.67	2.12	2-1963563-3	Ø2.000" HS, 1 3/8" THRD. 3 FINS	2.000	.540		
4.35	2.98	2.34	2-1963563-2	Ø2.000" HS, 1 3/8" THRD. 2 FINS	2.000	.440		
3.67	2.45	1.88	1-1963563-7	Ø1.375" HS, 1 3/8" THRD, 7 FINS	1.375	.940		
4.18	2.74	2.11	1-1963563-5	Ø1.375" HS, 1 3/8" THRD, 5 FINS	1.375	.740		
4.56	2.95	2.28	1-1963563-4	Ø1.375" HS, 1 3/8" THRD, 4 FINS	1.375	.640		
4.98	3.30	2.56	1-1963563-3	Ø1.375" HS, 1 3/8" THRD, 3 FINS	1.375	.540		
5.40	3.66	2.84	1-1963563-2	Ø1.375" HS, 1 3/8" THRD. 2 FINS	1.375	.440		
Rca (°C/WATT)			ASSEMBLY HS PART NO.		DESCRIPTION	Ø "B"	DIM "A"	
THERMAL PERFORMANCE								

REVISION INFO	REV.	A		B	
RELEASE		E12104	A	E12104	B
ERIN #:		E.1AO 5-4-07		E.1AO 5-4-07	
APP'D.		V.K 5-4-07		V.K 5-24-07	
RELEASED		ECR-07-012339	A	ECR-07-023087	B
RELEASED		ECAO 5-24-07		ECAO 5-24-07	
DA		10-1-07		10-1-07	
APP'D.		BP 10-18-07		BP 10-18-07	
RELEASED		ECR-07-030181	A	ECR-07-030181	B
RELEASED		ECAO 12-14-07		ECAO 12-14-07	
DA		12-14-07		12-14-07	
APP'D.		BP 12-17-07		BP 12-17-07	

DO NOT SCALE

**Tyco Electronics**  
North Attleboro, Massachusetts 02760

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	DRAWN BY:	DATE:	MATERIAL:
.XX ± . .XXX ± . .XXXX ± . ANGLES ± °	E.TAO	5-4-07	N/A
	ENGINEER:	DATE:	FINISH: N/A
	V. KHEIL	5-4-07	
	FILENAME: C-1963563	PROJECT: PRO-E	

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DIMENSIONS ARE IN: INCHES	SCALE: 2:1	TE PART NO.: SEE TABLE 2
THIRD ANGLE PROJECTION	SIZE: B	SHEET 1 of 1

ASSEMBLY  
HEATSINK WITH  
4 LEGS, 45mm CLIP

REV. B1	DWG. NO.: C-1963563	SHEET 1 of 1
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# Mouser Electronics

Authorized Distributor

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[1-1963563-2](#)