

DIP40

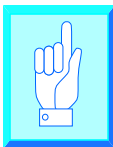
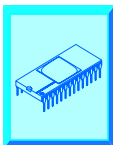
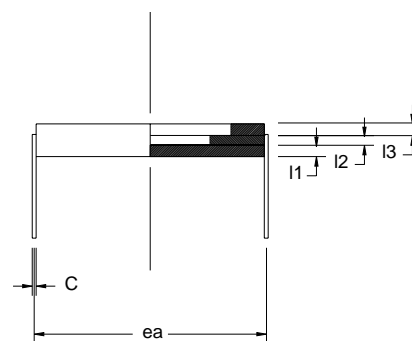
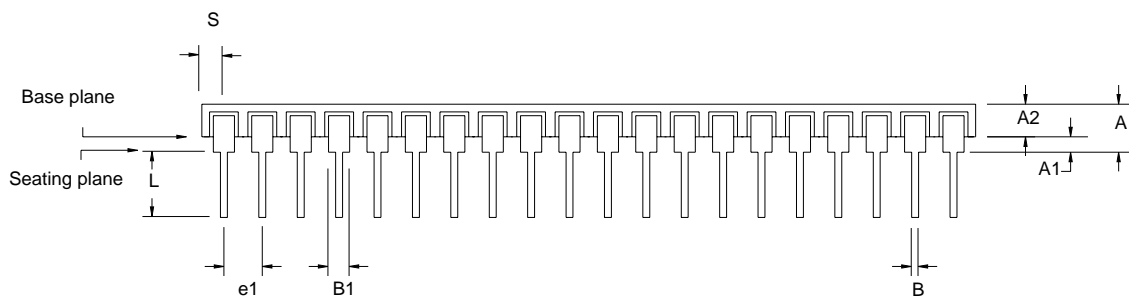
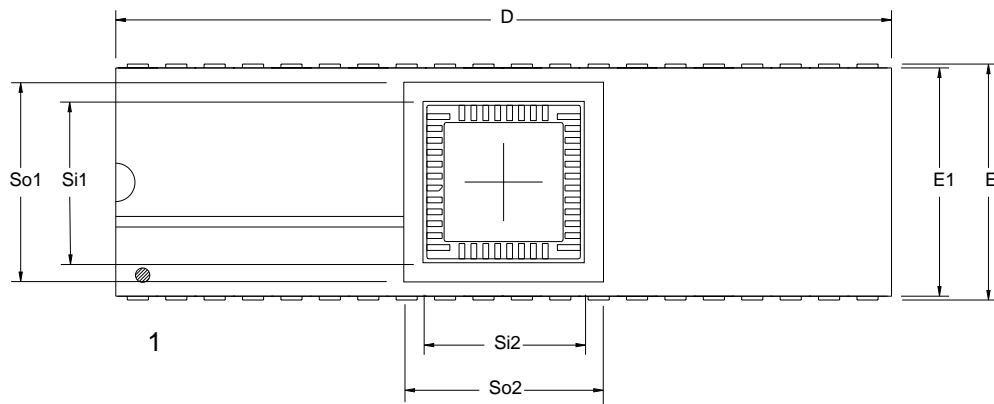


Table of Contents



Exit



Scale: 2X

Dimension	Designation	Nominal	Units/Material
A	Standing height	0.135	in
A1	Seating-Base plane	0.050	in
A2	Base plane height	0.085	in
B	Lead width	0.018	in
B1	Standoff width	0.050	in
C	Lead thickness	0.010	in
D	Overall length	2.000	in
E	Overall width	0.610	in
E1	Base width	0.595	in
e1	Lead pitch	0.100	in
ea	Row spacing	0.600	in
L	Lead length	0.175	in
N	Lead count	40	KOVAR
S	Lead-Base extension	0.050	in
I1	Layer 1 thickness	0.040	in/ceramic
I2	Layer 2 thickness	0.025	in/ceramic
I3	Layer 3 thickness	0.020	in/ceramic
Package	DIP40A	See appendix B	

Dimension	Designation	Nominal	Units/Material
Si1, Si2	Seal ring ID	0.420 sq	in
So1, So2	Seal ring OD	0.520 sq	in
Lid	F0505S	See appendix A	

Note: ROTATE THIS DIAGRAM 180 DEGREES.

DIP40

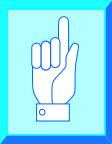
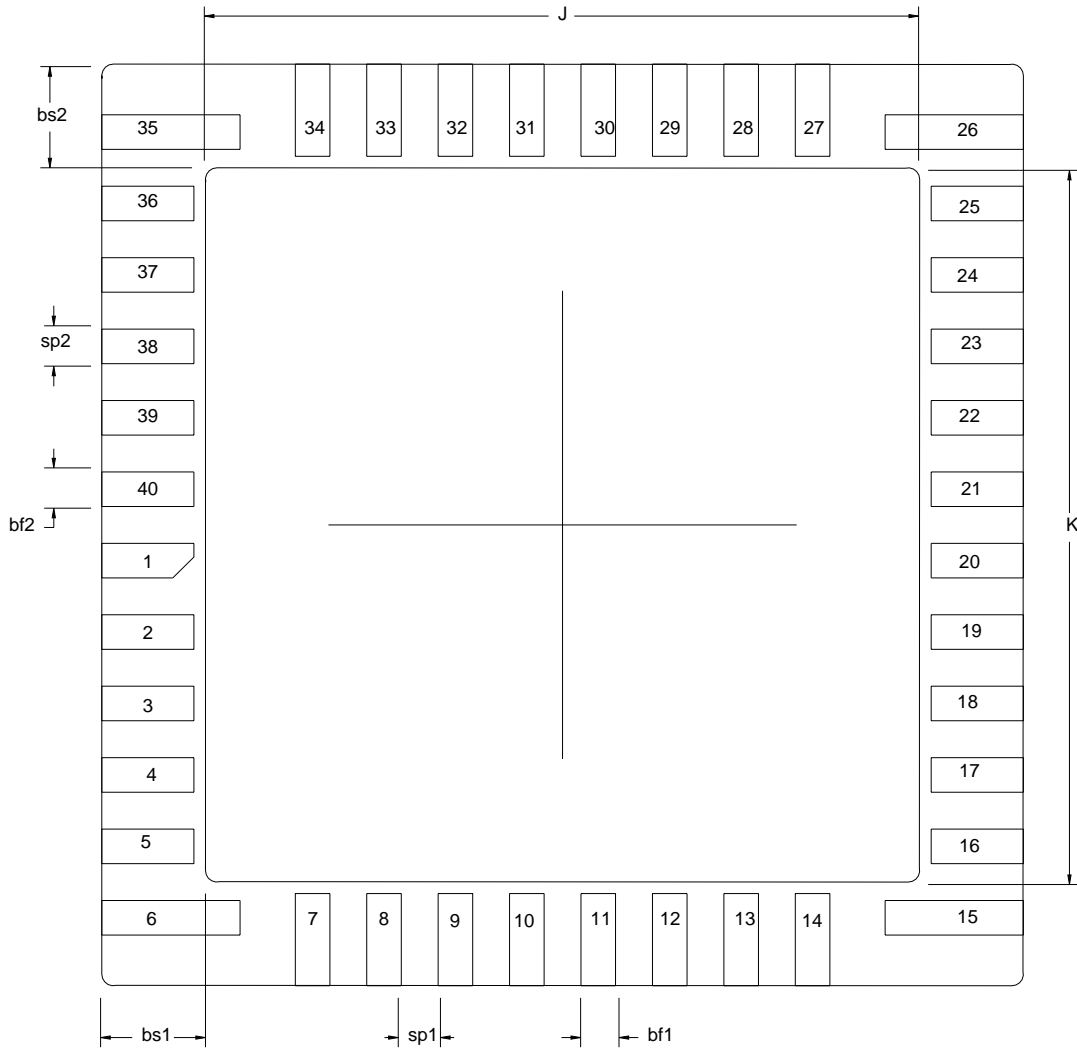
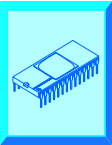
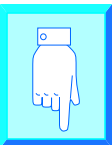


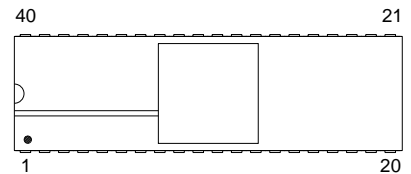
Table of Contents



Exit



Dimension	Designation	Nominal	Units/Material
J, K	Cavity length	0.310 sq	in
bs1	Bond shelf width	0.045	in
bs2	Bond shelf width	0.045	in
bf1	Bond finger width	0.015	in
bf2	Bond finger width	0.015	in
sp1	Finger spacing	0.016	in
sp2	Finger spacing	0.016	in



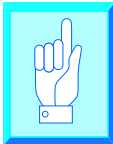
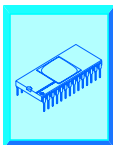


Table of Contents

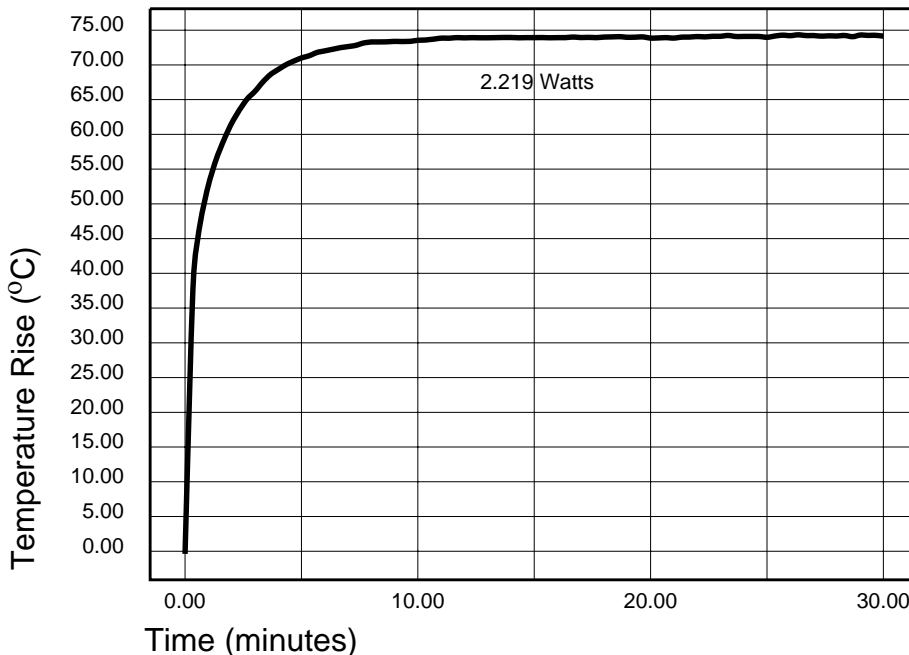


Exit

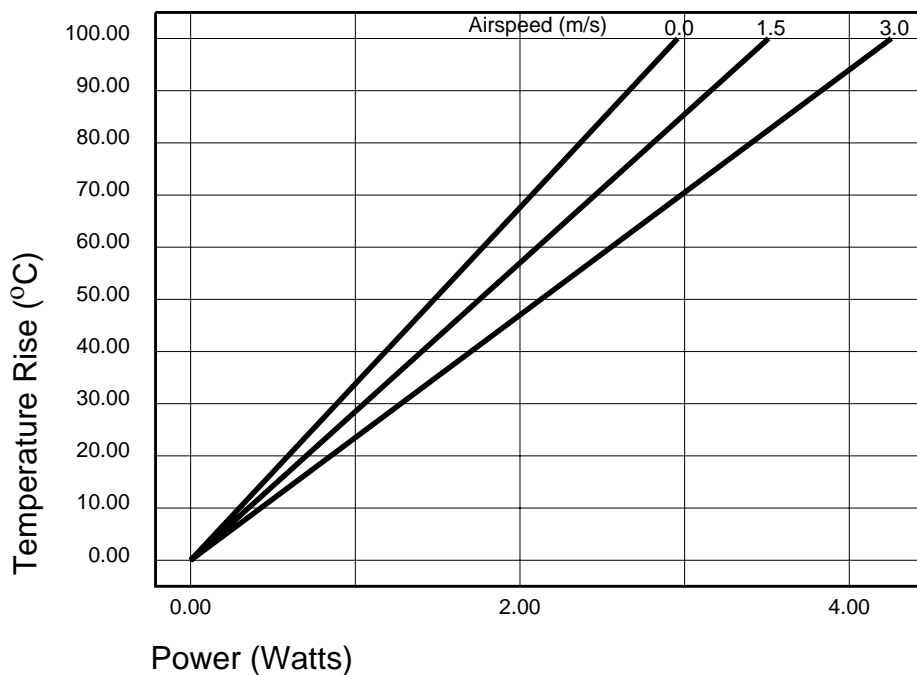


DIP40

Transient Thermal Response



Temperature - Power Relationship



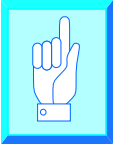
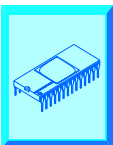


Table of Contents

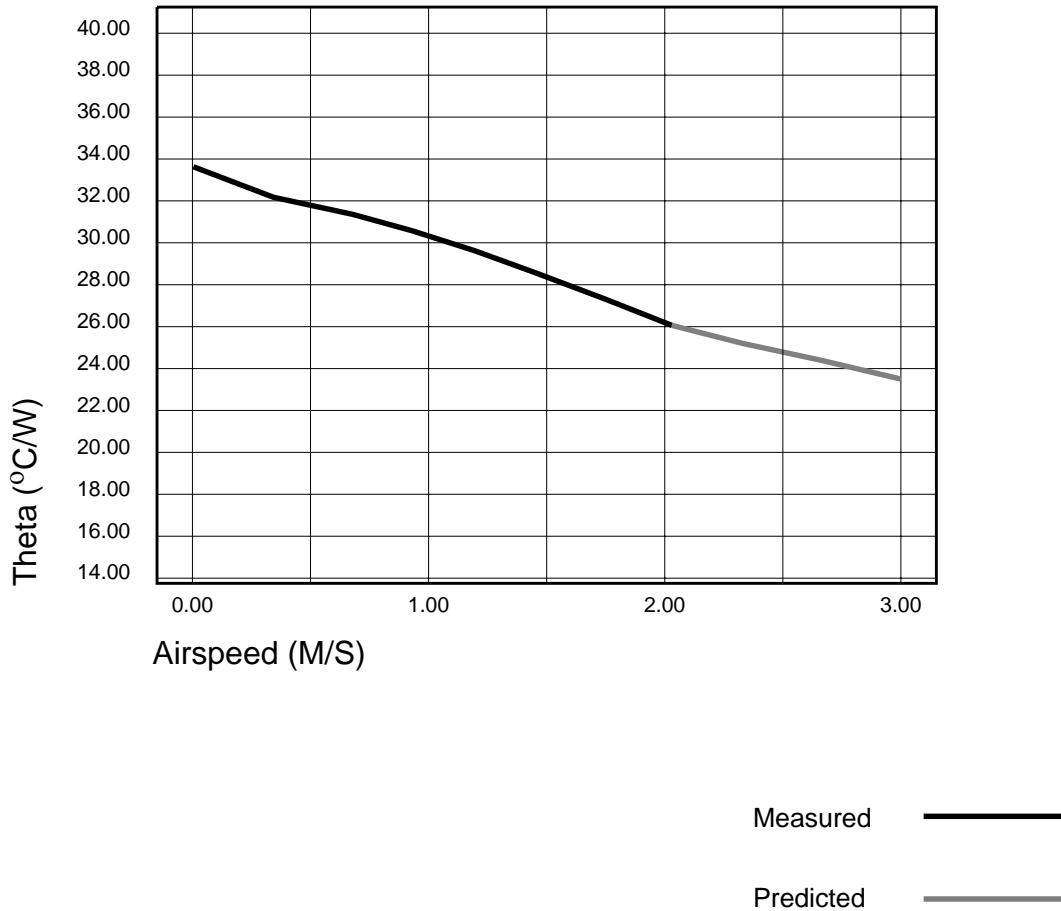


Exit



DIP40

Thermal Resistance

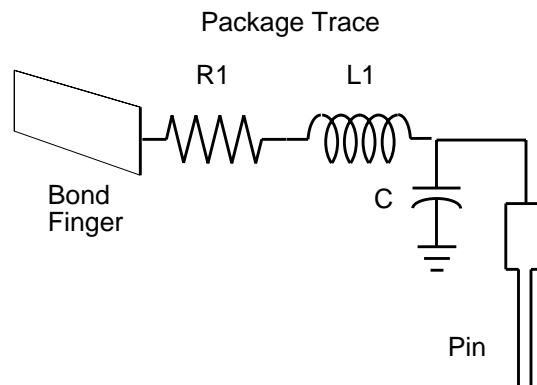
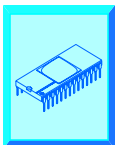


Thermal test device: "TOAST"
Die size: 0.153" x 0.133"
Die Attach material: Abelstick 84LMI silver filled epoxy

DIP40

Electrical Characteristics

Pin	R (Ω)	L (nH)	C (pF)	$t_{of}(ps)$
1,20,21,40	0.217	8.18	5.32	209
2,19,22,39	0.177	7.92	4.39	187
3,18,23,38	0.154	7.34	3.37	157
4,17,24,37	0.110	6.48	2.34	123
5,16,25,36	0.103	5.69	2.16	111
6,15,26,35	0.0661	4.37	1.43	79.0
7,14,27,34	0.0646	4.54	1.48	81.9
8,13,28,33	0.0498	3.69	1.05	62.3
9,12,29,32	0.0378	3.54	0.863	55.3
10,11,30,31	0.0247	3.15	0.660	45.6



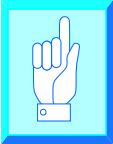
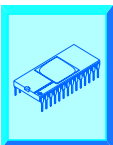
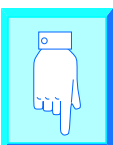


Table of Contents



Exit



DIP40

Cross-Talk

Trace	Low Z	High Z
Short	0.8	2.9
Long	Data in progress	8.9

% of adjacent signal coupled to nearest neighbor with 1ns rise time

Signal degradation

Trace	Input Risetime (ps)	Output Risetime (ps)
Short	100	227
Long	100	405

output risetime for a specific input risetime