

DIP28

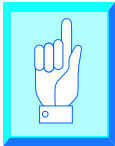
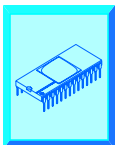
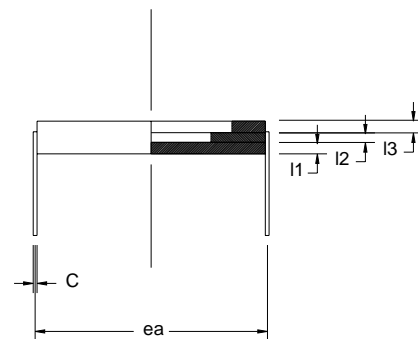
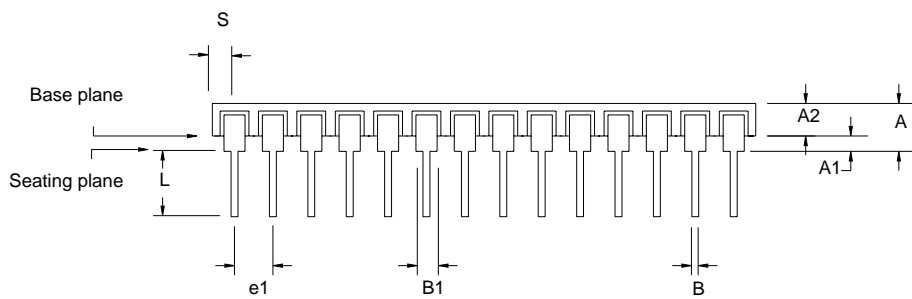
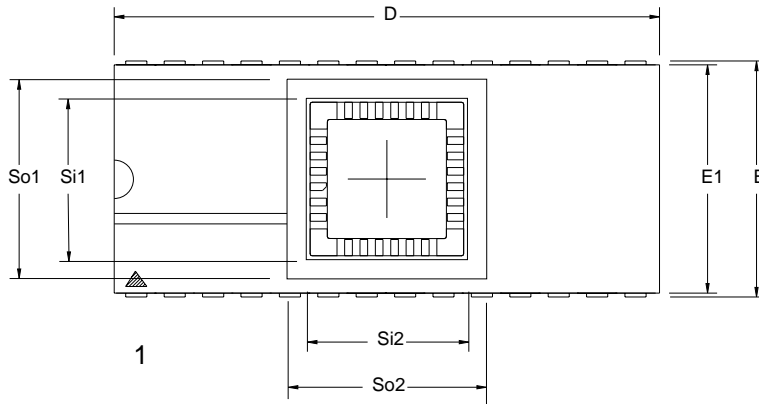


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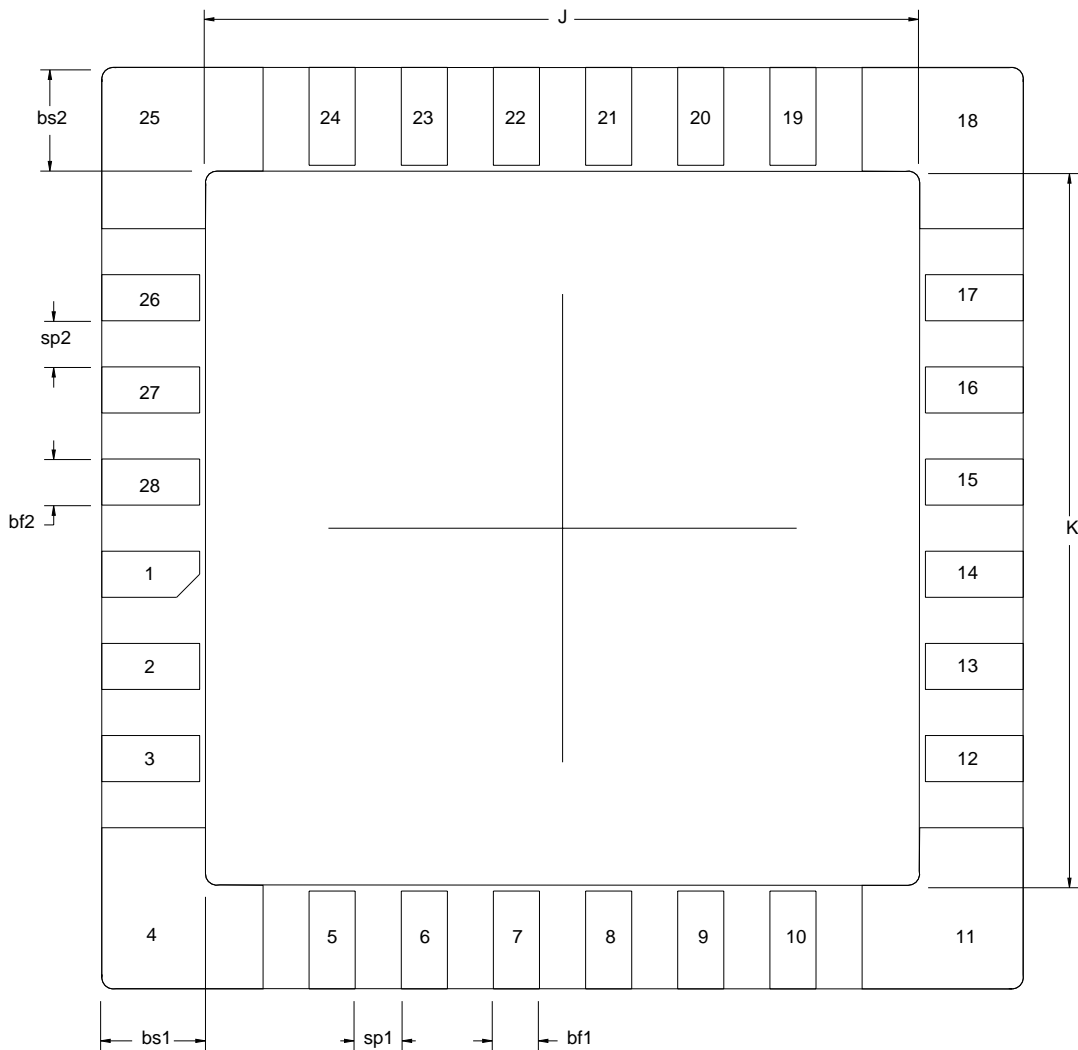
Scale: 2X

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	1.400	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	28	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	DIP28	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.

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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	0.020	in
bf2	Bond finger width	0.020	in
sp1	Finger spacing	0.020	in
sp2	Finger spacing	0.020	in

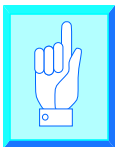
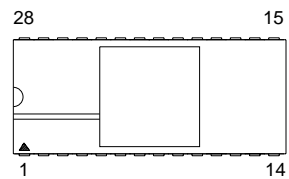
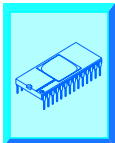
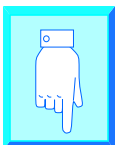


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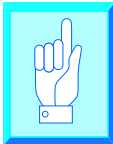
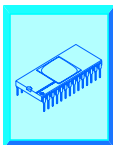


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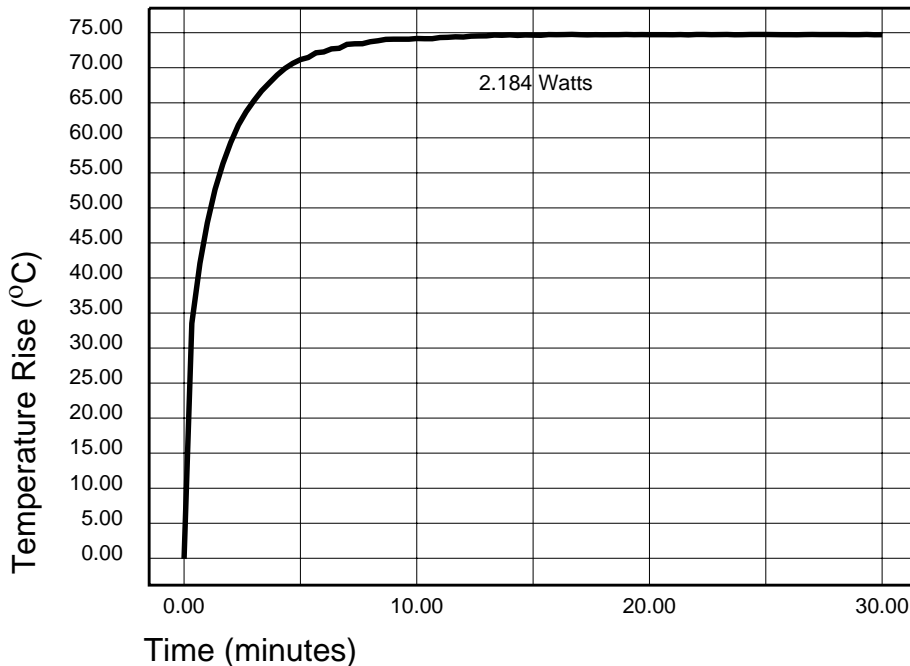


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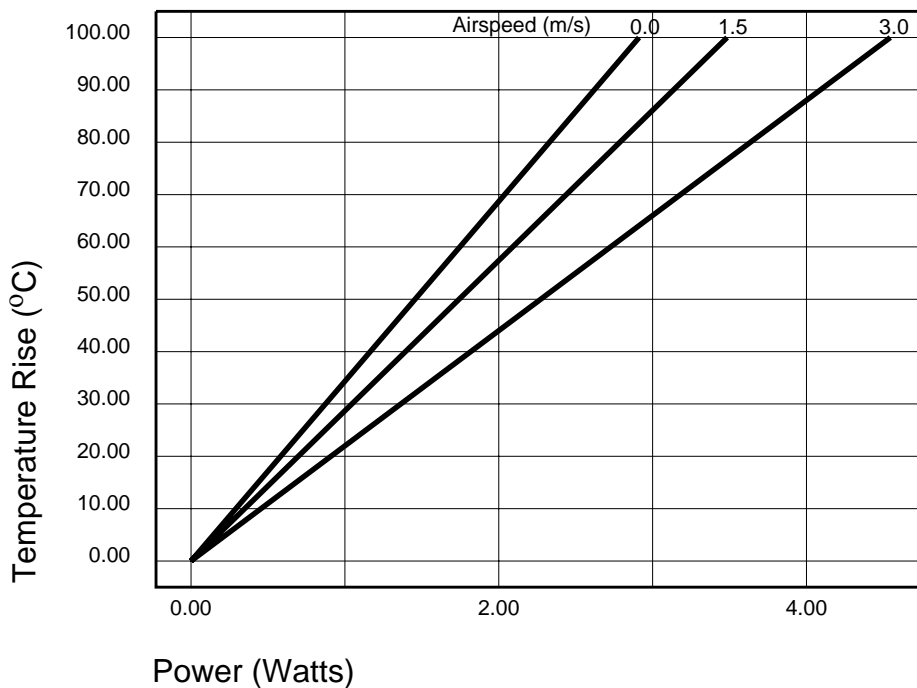


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Transient Thermal Response



Temperature - Power Relationship



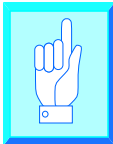
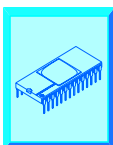


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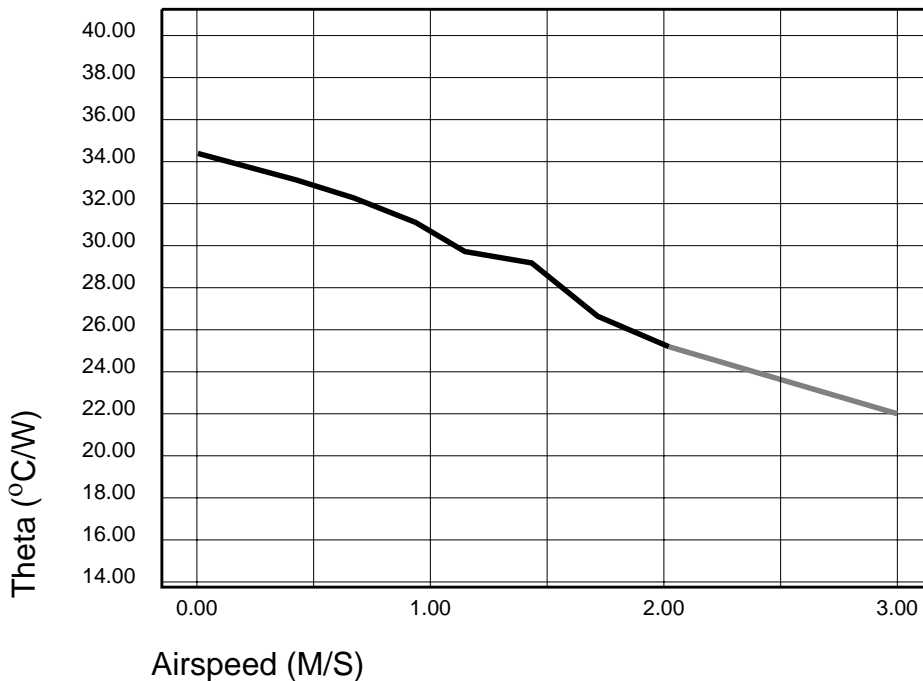


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Thermal Resistance



Measured ———
Predicted ———

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

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Electrical Characteristics

Pin	R (Ω)	L (nH)	C (pF)	$t_{of}(ps)$
1,14,15,28	0.128	5.67	3.80	147
2,13,16,27	0.114	5.68	3.11	133
3,12,17,26	0.0874	4.94	2.25	105
4,11,18,25	0.0578	3.92	2.02	89.1
5,10,19,24	0.0565	4.02	1.58	79.6
6,9,20,23	0.0457	3.75	0.983	60.7
7,8,21,22	0.0283	2.98	0.609	42.6

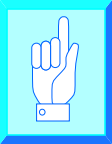
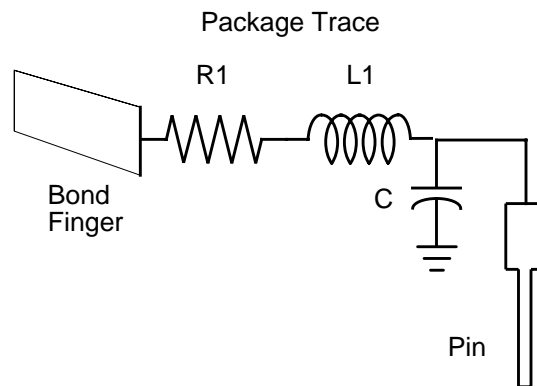
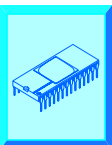


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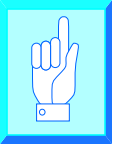
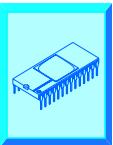
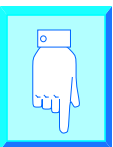


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Cross-Talk

Trace	Low Z	High Z
Short	1.1	2.8
Long	Data in progress	6.8

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

Signal degradation

Trace	Input Risetime (ps)	Output Risetime (ps)
Short	100	281
Long	100	412

output risetime for a specific input risetime