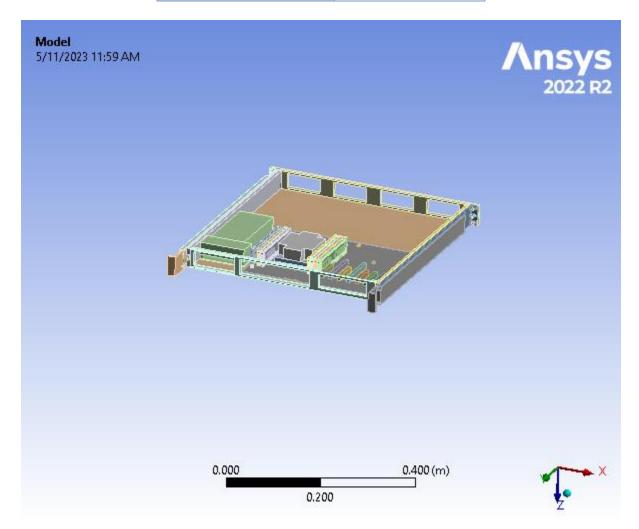


Project*

First Saved	Thursday, May 11, 2023
Last Saved	Thursday, May 11, 2023
Product Version	2022 R2
Save Project Before Solution	No
Save Project After Solution	No



Contents

- Units
- Model (A4, B4)
 - **Geometry Imports**
 - Geometry Import (A3, B3)
 - Geometry
 - **Smallest**
 - **Parts**
 - Small
 - **Parts**
 - Medium
 - **Parts**
 - Big
 - Parts
 - **Biggest**
 - Plate\Plate
 - Materials
 - o Coordinate Systems
 - o Connections
 - Contacts
 - Contact Regions
 - Mesh
- Mesh Controls
- Named Selections 0
- Modal (A5)
 - Pre-Stress (None)
 - **Analysis Settings**
 - **Fixed Support**
 - Solution (A6)
 - Solution InformationResults
- **Harmonic Response (B5)**
 - Modal (Modal)
 - **Analysis Settings**
 - Acceleration
 - Loads
 - Solution (B6)
 - Solution Information
 - Result Charts
- **Material Data**
 - o AISI 1020 Steel, cold rolled
 - Aluminum 6061-T6; 6061-T651 0
 - o Nylon
 - o Glass Epoxy Composite
 - 0
 - Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod
 - **ABS**

Units

TABLE 1

Unit System	Metric (m, kg, N, s, V, A) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

Model (A4, B4)

bject

TABLE 2 Model (A4, B4) > Geometry Imports

Object Name Geometry Imports State Solved

TABLE 3 Model (A4, B4) > Geometry Imports > Geometry Import (A3, B3)

bject lame	Geometry Import (A3, B3)
State	Solved
	Definition
urce	$\verb \line Less top \align= less top \al$
Туре	SpaceClaim
	Basic Geometry Options
eters	Independent
neter	
Key	
	Advanced Geometry Options
pare s On date	No
llysis Type	3-D
	Geometry

TABLE 4 Model (A4. B4) > Geometry

	model (A4, D4) > Geometry
bject lame	(38)///
State	Fully Defined
	Definition
purce	\\iowa.uiowa.edu\shared\Engineering\Home\makaufman\windowsdata\Desktop\ASSEMBLIES_FINAL\assembly_simplified_10_screv
Туре	SpaceClaim
Unit	Meters
ment	Program Controlled
ontrol	
splay Style	Body Color
Style	Doa, 2010.

gth X 0.48082 m

	0.55504	
gth Y	0.55504 m	
gth Z	4.3696e-002 m	
	Properties	
lume	2.1151e-003 m³	
Mass	8.3168 kg	
Scale		
actor /alue	1.	
value	Statistics	
odies	167	
ctive		
odies	167	
odes	555628	
nents	283240	
1etric	None	
	Update Options	
ssign	- Chance obtains	
efault	No	
terial		
	Basic Geometry Options	
Solid		
odies	Yes	
rface	Yes	
odies	res	
odies	Yes	
eters	Independent	
neter		
Key		
outes	Yes	
ibute		
Key		
amed	Yes	
tions		
amed		
ction Key		
terial		
erties	Yes	
	Advanced Geometry Options	
Use		
ativity	Yes	
inate	V	
tems	Yes	
inate		
n Key		
ader		
Mode		
aves	No	
dated		
File		

Use	Yes
CAD	Yes
npare ts On	No
date	INO
alysis	
Type	3-D
/lixed	
	None
nport ution	Notic
nport	
Facet	Source
uality	Course
Clean	
s On	No
nport	
Stitch	
aces	None
nport	
pose	
sjoint	Yes
netry	
sure	
and	Yes
metry	163
ssing	

Smallest

TABLE 5
Model (A4, B4) > Geometry > Smallest > Parts

Model (A4, B4) > Geometry > Smallest > Parts											
Object Name	Screw- 1\Screw- 1	Screw- 2\Screw- 2	Screw- 3\Screw- 3	Screw- 4\Screw- 4	Left-Nut- 1\Left- Nut-1	Left- Nut- 2\Left- Nut-2	Left-Nut- 3\Left- Nut-3	Left-Nut- 4\Left- Nut-4	Left- Nut- 5\Left- Nut-5	Left-Nut- 6\Left- Nut-6	Left-Nut- 7\Left- Nut-7
State						Meshed					
Graphics Properties											
Visible						Yes					
Transparency						1					
				[Definition						
Suppressed						No					
Stiffness Behavior						Flexible					
Coordinate System		Default Coordinate System									
Reference Temperature					Ву Е	Environm	ent				
Treatment						None					
					Material						
Assignment					AISI 1020	Steel, co	old rolled				

Nonlinear Effects	Yes											
Thermal Strain Effects						Yes						
				Во								
Length X		1.5875€	e-002 m				3.2	2512e-003	m			
Length Y		6.6548€	e-003 m				7.	874e-003	m			
Length Z		6.65486	e-003 m				7.	874e-003	m			
				Р	roperties							
Volume		1.6217e	-007 m ³				1.0	658e-007	m³			
Mass	,			8.3878e- 004 kg			8.3877e	-004 kg				
Centroid X	0.148	94 m	-0.279	984 m			(0.16035 m	1			
Centroid Y	0.245	0.24544 m 0.245		545 m	-0.18287 m	- 0.12731 m	- 7.1745e- 002 m	- 1.6183e- 002 m	3.938e- 002 m	9.4942e- 002 m	0.1505 m	
Centroid Z	- 1.2777e- 002 m	1.2623€	e-002 m	- 1.2777e- 002 m	-7.70176						- 7.7017e- 005 m	
Moment of Inertia	2.622e-009 kg·m²					7.1033e-009 kg·m²						
Ip1		2.622e-0	09 kg·m²				7.10	33e-009 k	g·m²			
		2.622e-0 3.0131e-0						33e-009 k 69e-009 k				
lp1 Moment of Inertia			008 kg·m²				4.13		g∙m²			
Ip1 Moment of Inertia Ip2 Moment of Inertia		3.0131e-0	008 kg·m²		Statistics		4.13	69e-009 k	g∙m²			
Ip1 Moment of Inertia Ip2 Moment of Inertia		3.0131e-0	008 kg·m²	(Statistics 1112	1056	4.13	69e-009 k	g∙m²	1044	1073	
Ip1 Moment of Inertia Ip2 Moment of Inertia Ip3		3.0131e-0	008 kg·m² 008 kg·m²	(1056 535	4.13 4.13	69e-009 k	g·m² g·m²	1044 523	1073 552	
Ip1 Moment of Inertia Ip2 Moment of Inertia Ip3 Nodes	704	3.0131e-0 3.0131e-0	008 kg·m² 008 kg·m²	§	1112		4.13 4.13 1110	69e-009 k 69e-009 k	g·m² g·m²			
Ip1 Moment of Inertia Ip2 Moment of Inertia Ip3 Nodes Elements	704	3.0131e-0 3.0131e-0	008 kg·m² 008 kg·m²	§ 81 29	1112	535 None	4.13 4.13 1110	69e-009 k 69e-009 k	g·m² g·m²			
Ip1 Moment of Inertia Ip2 Moment of Inertia Ip3 Nodes Elements	704	3.0131e-0 3.0131e-0	008 kg·m² 008 kg·m²	§ 81 29	1112 572 D Attribut	535 None	4.13 4.13 1110 573	69e-009 k 69e-009 k	g·m² g·m²			
Ip1 Moment of Inertia Ip2 Moment of Inertia Ip3 Nodes Elements Mesh Metric	704	3.0131e-0 3.0131e-0	008 kg·m² 008 kg·m²	§ 81 29	1112 572 D Attribut	535 None es	4.13 4.13 1110 573	69e-009 k 69e-009 k	g·m² g·m²			

TABLE 6
Model (A4, B4) > Geometry > Smallest > Parts

model (14) B4) > Goothery > Ghander > 1 are											
Object Name	Left-Nut- 8\Left- Nut-8	Left-Nut- 9\Left- Nut-9	Right- Nut- 1\Right- Nut-1	Right- Nut- 2\Right- Nut-2	Right- Nut- 3\Right- Nut-3	Right- Nut- 4\Right- Nut-4	Right- Nut- 5\Right- Nut-5	Right- Nut- 6\Right- Nut-6	Right- Nut- 7\Right- Nut-7	Right- Nut- 8\Right- Nut-8	Right- Nut- 9\Right- Nut-9
State						Meshed					
Graphics Properties											
Visible						Yes					
Transparency						1					
				D	efinition						
Suppressed						No					
Stiffness Behavior						Flexible					
Coordinate System					Default Co	oordinate	System				
Reference Temperature					Ву Е	Invironme	nt				

Treatment		None									
		Material									
Assignment		AISI 1020 Steel, cold rolled									
Nonlinear Effects		Yes									
Thermal Strain						Yes					
Effects		res									
	Bounding Box										
Length X						512e-003 r					
Length Y						74e-003 n					
Length Z						74e-003 n	1				
				Р	roperties						
Volume			ı	ı	1.06	58e-007 r	n³				
Mass	8.3877e	e-004 kg	8.3878e- 004 kg				8.3877e	-004 kg			
Centroid X	0.160)35 m				-0	.29122 m	า			
Centroid Y	0.20607 m	0.26163 m	-0.18287 m	- 0.12731 m	- 7.1745e- 002 m	- 1.6183e- 002 m	3.938e- 002 m	9.4942e- 002 m	0.1505 m	0.20607 m	0.26163 m
Centroid Z	- 7.7016e- 005 m	- 7.7017e- 005 m	- 8.4578e- 005 m				-8.4579	e-005 m			
Moment of Inertia					7.103	3e-009 kg	·m²				
Moment of Inertia					4.136	9e-009 kg	·m²				
Moment of Inertia					4.136	9e-009 kg	·m²				
				5	Statistics						
Nodes	1038	1045	1091	1039	1065	1062	1019	1096	1062	1023	1051
Elements	528	524	556	526	540	544	517	561	542	514	531
Mesh Metric						None					
				CAI	O Attribute	es					
PartTolerance:					0.0	00000001					
Color:175.168.143											

TABLE 7

Model (A4, B4) > Geometry > Smallest > Parts

Screw4 | Screw5| Screw6| Screw6| Screw7|Screw6|

Screw2\Screw2	Screw3\Screw3	Screw4\Screw4	Screw5\Screw5	Screw6\Screw6	Screw7\Screw7	Screw8\Screw8	Screw9\Screw9	Sa				
Meshed												
Graphics Properties												
Yes												
1												
Definition												
				No								
				Flexible								
Default Coordinate System												
				By Environme	nt							
				None								

				terial				
			Als	SI 1020 Steel, col	ld rolled			_
				Yes				
				Yes				
			Bound	ding Box				
	1.13796	e-002 m					9.525e-003	
e-002 m	4 4270		e-002 m				7.9248e-003	
	1.13/96	e-002 m	Pror	perties			7.9248e-003	m
4.934e-007 m³	5.8374e-007 m³	5.8373e-007 m³	5.8374e-007 m ³	5.8373e-007 m ³			1.5136e-007	m³
3.8831e-003 kg	4.594e-003 kg	4.5939e-003 kg	4.594e-	ı			1.1912e-003	kg
-0.298 m	0.167	713 m	-0.29	98 m			0.15538 m	
697 m	-		358 m		-0.18287 m	-0.12731 m	-7.1745e-002 m	
-8.4578e-005 m	-1.5952e-002 m	1.5798e-002 m	-1.596e-002 m	1.579e-002 m	-7.7016	e-005 m	-7.7015e-005 m	
007 kg⋅m²		2.2852e-(007 kg⋅m²		4.0912e-009 kg·m²	4.0911e-009 kg·m²		4.
008 kg⋅m²	3.4996e-008 kg⋅m²						1.2206e-008 kg	j∙m
007 kg⋅m²		2.2852e-(007 kg⋅m²				1.2206e-008 kg	j∙m
				tistics				
43	1336	1314	1326	1311	518	493	518	
71	656	644	650	642	252	234	252	
			CADA	None Attributes				
			CADA	0.00000001				
				0.0000001				
3\Screw13 Screw	v14\Screw14 Sci		l (A4, B4) > Geor	6 Screw17\Screv		rew18 Screw19	Screw19 Screw.	2015
				Meshed				
			Graphics	Properties Yes				
				1				-
			Defi	inition				
				No				
				Flexible				
			De	efault Coordinate	System			
				By Environme	ent			
				None				
				terial				
			AIS	SI 1020 Steel, co	ld rolled			

				Yes			
				Yes			
			Bound	ing Box			
				9.525e-003 m			
				7.9248e-003 m			
				7.9248e-003 m			
			Prop	erties			
				1.5136e-007 m ³			
				1.1912e-003 kg			
5538 m		-0.28628 m	0.15538 m			-0.286	
505 m	0.20607 m	-0.18287 m	0.26163 m	-0.12731 m	-7.1745e-002 m	-1.6183e-002 m	3.938e-0
6e-005 m		-8.4578e-005 m	-7.7016e-005 m			-8.4578e-005 m	
	4.0912e-009 kg·ı	m²			4.0911e-009 kg·m²		
				1.2206e-008 kg·m²			
				1.2206e-008 kg·m²			
			Stati	istics			
	510	511	503	514	499	510	503
	0.0	247	241	250	237	246	241
			I	None	-	-	
			CAD At	tributes			
				0.0000001			
		Mod		SLE 9 netry > Smallest > I	Parts		
	ETAINER_SCR EW_RETAINER_ V1_A	DIMM_SCREW_RE EW1\DIMM_SCREW SCREW1	_RETAINER_ EW	MM_SCREW_RETA /1\DIMM_SCREW_F SCREW1_A	RETAINER_ EW1\	I_SCREW_RETAIN DIMM_SCREW_RE SCREW1_B	
				Meshed			
			Graphics	Properties			
				Yes			
				1			
			Defi	nition			
				No			
				Flexible			
			Default (Coordinate System			
			Ву	Environment			

N	\sim	n	\sim
ıν	.,		•

Material

AISI 1020 Steel, cold rolled

Yes

Yes

Bounding Box						
4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-003 m			
4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-003 m			
6.35e-003 m	4.7498e-003 m	6.35e-003 m	4.7498e-003 m			
	F	Properties				
2.8004e-008 m ³	3.2091e-008 m³	2.8004e-008 m ³	3.2091e-008 m³			
2.204e-004 kg	2.5255e-004 kg	2.204e-004 kg	2.5255e-004 kg			
-1.7897e-002 m		-2.57716	e-002 m			
0.18808 m						

-1.7297e-002 m	-1.4179e-002 m	-1.7297e-002 m	-1.4179e-002 m
9.4292e-010 kg·m²	6.9001e-010 kg⋅m²	9.4292e-010 kg⋅m²	6.9001e-010 kg⋅m²
9.4292e-010 kg⋅m²	6.9e-010 kg·m²	9.4292e-010 kg·m²	6.9e-010 kg⋅m²
2.1181e-010 kg⋅m²	4.2626e-010 kg⋅m²	2.1181e-010 kg·m²	4.2626e-010 kg⋅m²
		Statistics	
472	362	472	362
216	168	216	168

None

CAD Attributes

0.0000001

	Model (A4.	TABLE 10 B4) > Geometry > Smallest > P	Darte				
_SCREW_RETAINER_				DIMM_SCREW_			
W1\DIMM_SCREW_RE	SCREW1\DIMM_SCREW_RE	SCREW1\DIMM_SCREW_RE	SCREW1\DIMM_SCREW_RE	SCREW2\DIMM			
AINER_SCREW1_A	TAINER_SCREW1_B	TAINER_SCREW1_A	TAINER_SCREW1_B	TAINER_SC			
		Meshed Graphics Properties					
		Graphics Properties Yes					
		100					
		1					
		Definition					
		No					
	Flexible						
		Default Coordinate System					
		By Environment					
		None					
		Material					
		AISI 1020 Steel, cold rolled					
		Yes					
		Yes					
		Bounding Box					
4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-003 m	4.1148e-			
4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-003 m	4.1148e-			

6.35e-003 m	4.7498e-003 m	6.35e-003 m	4.7498e-003 m	6.35e-0
		Properties		
2.8004e-008 m³	3.2091e-008 m³	2.8004e-008 m ³	3.2091e-008 m ³	2.8004e-0
2.204e-004 kg	2.5255e-004 kg	2.204e-004 kg	2.5255e-004 kg	2.204e-0
-0.15	361 m	-0.16	6148 m	
0.19443 m				4.9078e-
-1.7297e-002 m	-1.4179e-002 m	-1.7297e-002 m	-1.4179e-002 m	-1.7297e-
9.4292e-010 kg⋅m²	6.9001e-010 kg·m²	9.4292e-010 kg·m²	6.9001e-010 kg·m²	9.4292e-01
9.4292e-010 kg⋅m²	6.9e-010 kg⋅m²	9.4292e-010 kg⋅m²	6.9e-010 kg⋅m²	9.4292e-01
2.1181e-010 kg·m²	4.2626e-010 kg⋅m²	2.1181e-010 kg⋅m²	4.2626e-010 kg·m²	2.1181e-01
		Statistics		
472	362	472	362	445
216	168	216	168	199
	1	None		
		CAD Attributes		
		0.0000001		

TABLE 11	
Model (A4, B4) > Geometry > Smallest > Parts	

model (A+, D+) > Geometry > onlanest > 1 arts								
1_SCREW_RETAINER_	DIMM_SCREW_RETAINER_	DIMM_SCREW_RETAINER_	DIMM_SCREW_RETAINER_	DIMM_SCREW_				
EW2\DIMM_SCREW_RE	SCREW2\DIMM_SCREW_RE	SCREW2\DIMM_SCREW_RE	SCREW2\DIMM_SCREW_RE	SCREW2\DIMM				
AINER_SCREW2_B	TAINER_SCREW2_A	TAINER_SCREW2_B	TAINER_SCREW2_A	TAINER_SC				
	-	-	-					

Meshed

Graphics Properties

Yes

		D. Cultium		
		Definition		
		No		
		Flexible		
		Default Coordinate System		
		By Environment		
		None		
		Material		
		AISI 1020 Steel, cold rolled		
		Yes		
		Yes		
	ı	Bounding Box		ı
3.3782e-003 m	4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-
3.3782e-003 m	4.1148e-003 m	3.3782e-003 m	4.1148e-003 m	3.3782e-(
4.7498e-003 m	6.35e-003 m	4.7498e-003 m	6.35e-003 m	4.7498e-(
		Properties		
3.2091e-008 m³	2.8004e-008 m³	3.2091e-008 m³	2.8004e-008 m ³	3.2091e-0
2.5255e-004 kg	2.204e-004 kg	2.5255e-004 kg	2.204e-004 kg	2.5255e-0
m	-0.13	3786 m	-0.14	573 m
4.8618e-002 m	5.543e-002 m	5.497e-002 m	5.543e-002 m	5.497e-0
-1.4179e-002 m	-1.7297e-002 m	-1.4179e-002 m	-1.7297e-002 m	-1.4179e-
6.9001e-010 kg·m²	9.4292e-010 kg·m²	6.9001e-010 kg·m²	9.4292e-010 kg·m²	6.9001e-01
6.9001e-010 kg·m²	9.4292e-010 kg·m²	6.9001e-010 kg·m²	9.4292e-010 kg·m²	6.9001e-01

		1							
4.2626e-010 kg⋅m²	2.1181e-010 kg⋅m²	4.20	626e-010 k	g∙m²	2.1181e-010 kg⋅m²			4.26	26e-01
		Sta	itistics						
329	445		329			445			329
149	199		149			199			149
			None						
		CAD	Attributes						
			0.0000000	1					
	Model (A4, I		BLE 12	mallast > E	Oorte				
	IVIOUCI (AT, I	D4) > Geo	PEM-	PEM-	PEM-	РЕМ-	РЕМ-	PEM-	PEI
/_RETAINER_SCREW2\L	DIMM_SCREW_RETAINER_SC	CREW2_B	Fastener- 1\PEM- Fastener-	Fastener- 2\PEM- Fastener-	Fastener- 3\PEM- Fastener-	Fastener- 4\PEM- Fastener-	Fastener- 5\PEM- Fastener-	Fastener- 6\PEM- Fastener-	Faste 7\PE Faste
			1 Me	2 shed	3	4	5	6	7
		Graphic	s Propertie						
			Υ	'es					
	<u></u>	Det	finition	1					
		De		No					
				xible					
		D	efault Coor	dinate Sys	tem				
			By Env	rironment					
				one					
		Ma	aterial						
AISI 1020 Ste	eel, cold rolled			-	Alum	ninum 6061	-T6; 6061-	T651	
				es es					
		Boun	ding Box	'es					
3.37826	e-003 m	Boun	7.3324e-		7.3	3323e-003	m		7.332
			003 m						003
I									

3.3782e-003 m	6.35e-003 m							
4.749	8e-003 m							
Pro	perties							
3.2091e-008 m³				8.8258e	e-008 m³			
2.5255e-004 kg				2.383e	-004 kg			
-0.16148 m	-0.15686 m	6.1601e- 004 m		0.12508 m	l	6.1601e- 004 m	-0.15 m	
5.497e-002 m	4.6568e- 002 m	0.228	0.22818 m 8.4788e- 7.3238e- 004 m 002 m		77818 m		8.47886	e-004 r
-1.4179e-002 m				1.9415	e-002 m			
6.9001e-010 kg·m²				1.0709e-0	009 kg·m²			
6.9001e-010 kg·m²				1.0709e-(009 kg·m²			
4.2626e-010 kg·m²	1.1596e-009 kg⋅m²							
Sta	atistics							
329	491	466	529	503	479	451	48	
149	227	208	250	229	212	199		
	N	one						
CAD	Attributes							

TABLE 13 Model (A4, B4) > Geometry > Smallest > Parts

0.0000001

		model (, 🗕 ., -	Occinenty	/ Ciliand	oc > 1 and	•		
Object Name	Screw- 3\Screw- 3	Screw- 4\Screw- 4	Screw- 5\Screw- 5	Screw- 6\Screw-	Screw- 7\Screw- 7	Screw- 8\Screw- 8	Screw- 9\Screw- 9	Nut- 1\Nut-1	Standoff- 1\Standoff- 1
State	U	•	Ū	U	Meshed	_	Ū		,
	Graphics Properties								
Visible					Yes				
Transparency					1				
	Definition								
Suppressed		No							
Stiffness Behavior					Flexible				
Coordinate System		Default Coordinate System							
Reference Temperature				B	y Environn	nent			
Treatment					None				
				Materia	l				
Assignment			AIS	I 1020 Ste	el, cold ro	lled			Aluminum 6061-T6; 6061-T651
Nonlinear Effects					Yes				

Thermal Strain Effects	Yes									
Lifects			В	ounding l	Вох					
Length X			7.97566				7.0866e- 003 m	6.8162e- 003 m	6.3498e- 003 m	
Length Y			7.97566	e-003 m			7.0866e- 003 m	7.2982e- 003 m	7.3321e- 003 m	
Length Z			9.24566	e-003 m			9.4742e- 003 m	3.0226e- 003 m	3.175e- 003 m	
				Propertie	es					
Volume	1.4187e-007 m³						9.9522e- 008 m³	6.596e- 008 m ³	7.9856e- 008 m³	
Mass			1.1165e	-003 kg			7.8324e- 004 kg	5.191e- 004 kg	2.1561e- 004 kg	
Centroid X	-0.15686 m	6.6656e- 002 m	-0.15686 m	0.125	0.12508 m 6.1601e- 004 m			-0.15686 m		
Centroid Y	4.6568e- 002 m	7.3238e- 002 m	8.4788e- 004 m	7.3238e- 002 m				0.20532 m		
Centroid Z	1.5831e- 002 m	1.5731e- 002 m	1.5831e- 002 m	1.5	731e-002	2 m	1.7521e- 002 m	1.8458e- 002 m	1.3605e- 002 m	
Moment of Inertia			9.5367e-0)09 kg⋅m²			7.2928e- 009 kg·m²	2.2327e- 009 kg·m²	9.5297e- 010 kg·m²	
Moment of Inertia			9.5367e-0)09 kg⋅m²			7.2928e- 009 kg·m²	2.2328e- 009 kg·m²	9.5296e- 010 kg·m²	
Moment of Inertia			5.1906e-0)09 kg⋅m²			1.8303e- 009 kg·m²	3.8088e- 009 kg·m²	1.5463e- 009 kg·m²	
				Statistic	s					
Nodes	964	950	915	943	971	987	432	2206	397	
Elements	481	469	451	469	490	498	203	1160	187	
Mesh Metric				A D. A () !!	None					
DowtTologo			C	AD Attrib		04				
PartTolerance: Color:143.164.175					0.000000	UΙ				
Color: 175.168.143										
Color:168.175.143										

Small

TABLE 14 Model (A4, B4) > Geometry > Small > Parts

	l l			
M_SCREW_RETAINER_T	DIMM_SCREW_RETAINER_T	DIMM_SCREW_RETAINER_T	DIMM_SCREW_RETAINER_T	DIMM_SCRE
OUTSIDE\DIMM_SCREW	OP_OUTSIDE\DIMM_SCREW	OP_OUTSIDE\DIMM_SCREW	OP_OUTSIDE\DIMM_SCREW	OP_OUTSIDE
TAINER_TOP_OUTSIDE	_RETAINER_TOP_OUTSIDE	_RETAINER_TOP_OUTSIDE	_RETAINER_TOP_OUTSIDE	_RETAINER_
	l ·	l ·	1	

Meshed

Graphics Properties

Yes

-1.8522e-002 m

4.4621e-006 kg·m²

0.12493 m

1.5976e-0	008 kg⋅m²			
4.4712e-0	ე06 kg⋅m²			
		Statistics		
448	83			
218	85			
		None		
		CAD Attributes		
		0.00000001		
		TABLE 15		
		B4) > Geometry > Small > Parts		
_INSIDE\DIMM_SCREW_	DIMM_SCREW_RETAINER_T OP_INSIDE\DIMM_SCREW_	VERTICAL1\DIMM_SCREW_	DIMM_SCREW_RETAINER_ VERTICAL1\DIMM_SCREW_	DIMM_SCREW VERTICAL1\DI
ETAINER_TOP_INSIDE	RETAINER_TOP_INSIDE	RETAINER_VERTICAL1 Meshed	RETAINER_VERTICAL1	RETAINER_
		Graphics Properties		
		Yes		
		1		
		Definition		
		No		
		Flexible		
		Default Coordinate System		

		By Environment		
		None		
		Material		
		ABS		
		Yes		
		Yes		
		Bounding Box		
		Properties		
-0.15361 m	-0.16148 m	-1.0023e-002 m	-1.7897e-002 m	-2.57716
			0.186	666 m
		Statistics		

	None		
CAD	Attributes		
	0.00000001		
	BLE 16 cometry > Small > Parts		
DIMM_SCREW_RETAINER_VE	DIMM_SCREW_RETAINER_VE	DIMM_SCREW_RETAINER_VE RTICAL2\DIMM_SCREW_RET AINER_VERTICAL2	DI. R
	Meshed		
Graphic	s Properties		
	Yes		
Do	1 finition		
De			
	No		
	Flexible		
Default	Coordinate System		
B	y Environment		
	None		
Ma	aterial		
	ABS		
	Yes		
	Yes		

	Bound	ding Box	
		6.3e-003 m	
	7.445e-	-003 m	
	3.205e-	-002 m	
	Pro	perties	
	7.1078e-	-007 m³	
	9.2401e	-004 kg	
-1.7897e-002 m	-2.5771e-002 m	-3.3645e-002 m	-0.13786 m
5.0031e	-002 m		
	-5.83166	e-003 m	
	6.3716e-0	008 kg·m²	
	6.3917e-0)08 kg·m²	
	6.8821e-0)09 kg⋅m²	
	Sta	tistics	
		57	790
		31	100
		None	
	CAD A	Attributes	
		0.0000001	
	ТА!	BLE 17	
	Model (A4, B4) > Ge	eometry > Small > Parts	
SLOT DIMM_SLOT\DIMM_SLOT	DIMM_SLOT\DIMM_SLOT DIMM	M_SLOT\DIMM_SLOT DIMM_SL	.OT\DIMM_SLOT DIMM1_CHIP\DIMI

Meshed **Graphics Properties**

				Yes			
				1			
			Def	finition			
				No			
				Flexible			
			D	efault Coordinate S	System		
				By Environmer	nt		
				None			
			Ma	aterial			
AE	3S						
				Yes			
				Yes			
			Boun	nding Box			
6.3e-0							
0.152							
1.965e	-002 m		Dur				
4.5920	2003		Pro	perties			
4.583e-							
5.9579e	786 m	-0.14573 m		-0.15361 m		-0.16148 m	-9.7851e-003
-0.137	780 111		0.12468 m			-0.10140111	-9.70018-003
1.092e	-002 m		U. 12400 iii	1			
1.3096e-0	005 kg·m²						
1.2129e-0	007 kg⋅m²						
1.3018e-0	005 kg⋅m²						
			Sta	atistics			
288							
154	120						
				None			
			CAD	Attributes			
				0.00000001			
				BLE 18			
				eometry > Small >			
	DIMM1_CHI	P\DIMM1_CHIP DIMM	1_CHIP\DI		11_CHIP	NDIMM1_CHIP DIMM	11_CHIP\DIMM1_CHIP
State				Meshed			
			Graphic	s Properties			
Visible				Yes			
Transparency				1			
			Det	finition			
Suppressed				No			

Stiffness Behavior		Flexi	ible				
Coordinate System		Default Coordi	inate System				
Reference Temperature		By Environment					
Treatment		Nor	ne				
		Material					
Assignment		Glass Epoxy					
Nonlinear Effects	1	Ye	#S				
Thermal Strain Effects		Ye	·S				
		Bounding Box					
Length X		4.1075e-	-003 m				
Length Y		0.1333					
Length Z		3.1321e-	-002 m				
		Properties					
Volume		8.095e-0					
Mass		5.9093e-					
Centroid X	-0.13762 m	-0.1455 m	-0.15337 m	-0.16125 m			
Centroid Y	1	0.1242					
Centroid Z		-1.5685e	÷-003 m				
Moment of Inertia lp1		8.9306e-0	05 kg⋅m²				
Moment of Inertia lp2		3.6221e-0	06 kg⋅m²				
Moment of Inertia lp3		8.5765e-0	05 kg⋅m²				
		Statistics					
Nodes		607	72				
Elements		291					
Mesh Metric	<u> </u>	Nor	ne				
		CAD Attributes					
PartTolerance:		0.0000	00001				
Color:143.159.175							

Medium

TABLE 19 Model (A4, B4) > Geometry > Medium > Parts

					, , , , , , , , , , , , , , , , , , , ,						
ıme	Front- Plate\Front- Plate	Plate-	Right- Plate- Inner\Right- Plate-Inner	Plate\Back-		Ear\Left-	Right-Mounting- Ear_Rear\Right- Mounting-Ear	Ear\Right-	Guidebar\Left-	Right- Guidebar\Ri Guidebal	
ate	1					Meshe	эd				
	Graphics Properties										
ible						Yes					

ncy		1
	Definition	
sed		No

vior						Flexibl	ıle			
ate tem					Defa	ault Coordina	ate System			
nce ure						By Enviror	nment			
ent						None	э			
					Mate					
ent	Alur	minum 6061	1-T6; 6061-T6	351	A'		teel, cold rolled		Ny	ylon
ects						Yes				
rain ects						Yes				
					Boundin	ng Box				
h X	0.4252 m	9.144€	e-003 m	0.48082 m	1.7882e-002 m	1.651e- 002 m	1.7882e-002 m	1.651e- 002 m	6.35e	-003 m
hΥ	1.27e-002 m	0.48	326 m	9.525e-003 m	0.4916 m	0.49721 m	0.4916 m	0.49721 m	0.46	699 m
th Z	4.3307e- 002 m	4.3688	Be-002 m	4.3307e- 002 m	 	4.3688	3e-002 m		1.1684	e-002 m
					Prope	rties				
ıme	4.9769e- 005 m³	1.4888e- 004 m ³	1.4882e- 004 m³	8.2892e- 005 m³	6.4756e-005 m³	5.2426e- 005 m ³	6.4756e-005 m ³	5.2426e- 005 m ³	2.7663	e-005 m³
ass		0.40199 kg	0.4018 kg	0.22381 kg		0.4126 kg	0.50963 kg	0.4126 kg	3.2089	e-002 kg
d X	-4.775e- 002 m	0.15149 m	-0.28239 m	-6.5449e- 002 m	0.16474 m	0.15954 m	-0.29561 m	-0.29042 m	0.15427 m	-0.28517 ı
d Y	0.2476 m	1.2658e- 002 m	1.2625e- 002 m	-0.23384 m	7.3426e-002 m	2.1425e- 002 m	7.3426e-002 m	2.1425e- 002 m	3.938€	e-002 m
id Z	1.1534e- 003 m	-7.4915e- 005 m	-7.0092e- 005 m	4.7337e- 005 m	-7.6983e-005 m	-7.7017e- 005 m	-8.4613e-005 m	-8.4579e- 005 m	-7.7016e-005 m	-8.4579e-0 m
ertia Ip1	3.4683e- 005 kg·m²	7.7884e- 003 kg·m²	7.7855e- 003 kg·m²	4.8203e- 005 kg·m²	1.0799e-002 kg·m²	8.4792e- 003 kg·m²	1.0799e-002 kg·m²	8.4792e- 003 kg·m²	5.8192e-	·004 kg·m²
ertia Ip2		7.7224e- 003 kg·m²	7.7196e- 003 kg·m²	5.2268e- 003 kg·m²	8.5857e-005 kg·m²	9.2028e- 005 kg·m²	8.5857e-005 kg·m²	9.2028e- 005 kg·m²	3.8703e-007 kg·m²	3.8704e-00 kg·m²
ertia Ip3		7.1982e- 005 kg·m²	7.1958e- 005 kg·m²	5.2717e- 003 kg·m²	1.072e-002 kg·m²	8.3912e- 003 kg·m²	1.072e-002 kg·m²	8.3912e- 003 kg·m²	5.8175e-	-004 kg·m²
					Statis	stics				
des		13423	14018	6096	4191	5282	4128	5258	3944	3923
ents		7471	7857	2828	1891	2274	1858	2257	1804	1790
etric						None	9			
					CAD Attr					
ice:						0.00000	001			
175										
199										
143										

143

Object Name	PCI-	PCI-	PCI-	PCI-	PCI-	PCI-		
	Slots\PCI-2	Slots\PCI-3	Slots\PCI-4	Slots\PCI-5	Slots\PCI-6	Slots\PCI-7		
State		Meshed						
\/iaible		Grapr	nics Propertie					
Visible			1	res				
Transparency			Definition	1				
Cummunanad			Definition	N.a.				
Suppressed				No exible				
Stiffness Behavior								
Coordinate System			Default Cool	rdinate System	1			
Reference Temperature			By Env	vironment				
Treatment			N	one				
Heatment			Material	One				
Assignment				.CP				
Nonlinear Effects				res				
Thermal Strain								
Effects			`	⁄es				
		Во	unding Box					
Length X	7.5e-0	003 m		7.4e-(003 m			
Length Y	5.5999e	e-002 m	8.9e-002 m	5.5999e-002 m	8.9e-002 m	5.5999e-002 m		
Length Z			1.108	e-002 m				
		F	Properties					
Volume	4.6535e	-006 m³	7.2973e-006 m³	4.5915e-006 m³	7.2973e-006 m³	4.5915e-006 m ³		
Mass	8.1902e	-003 kg	1.2843e-002 kg	8.081e-003 kg	1.2843e-002 kg	8.081e-003 kg		
Centroid X	0.10065 m	8.0327e- 002 m	6.0006e-002 m	3.9681e-002 m	1.9366e-002 m	-9.5399e- 004 m		
Centroid Y	0.167	'89 m	0.15139 m	0.16789 m	0.15139 m	0.16789 m		
Centroid Z			9.7451e-003 m					
Moment of Inertia	2.2241e-0	006 kg⋅m²	8.609e-006 kg·m²	2.1945e-006 kg·m²	8.609e-006 kg·m²	2.1945e-006 kg·m²		
Moment of Inertia	1.2218e-0)07 kg⋅m²	1.9e-007 kg⋅m²	1.1955e-007 kg·m²	1.9e-007 kg·m²	1.1955e-007 kg·m²		
Moment of Inertia	2.1787e-0)06 kg⋅m²	8.5362e-006 kg·m²	2.1487e-006 kg·m²	8.5362e-006 kg·m²	2.1487e-006 kg·m²		
ipo			Statistics	··· ···	··········	···· ···		
Nodes	12		184	127	184	127		
Elements	1:		18	12	18	12		
Mesh Metric				one				
		CA	D Attributes					
PartTolerance:				000001				
Color:143.175.143								

Big

Object Name	Board\Board	Sink\Sink	Base\Base	PSK\Solid1					
State	Doard Doard	Mesh		1 SINISONAT					
Graphics Properties									
Vicible	Visible								
Transparency		1							
Transparency		Definition							
Suppressed		No	<u> </u>						
Stiffness Behavior		Flexil							
Coordinate System		Default Coordi							
Reference			-						
Temperature		By Enviro	onment						
Treatment		Non	ie						
		Material							
Assignment	Glass Epoxy Composite								
Nonlinear Effects		Yes	S						
Thermal Strain Effects		Yes	S						
		Bounding Box							
Length X	0.30734 m	7.9e-	002 m	0.10096 m					
Length Y	0.254 m	0.102	214 m	0.2222 m					
Length Z	1.6e-003 m	1.6e-003 m 2.4698e-002 m 9.185e-003 m							
		Properties							
Volume	1.2466e-004 m³	1.678e-004 m³	7.4113e-005 m³	5.2225e-004 m³					
Mass	0.91003 kg	0.27745 kg	0.12255 kg	0.67892 kg					
Centroid X	-1.201e-002 m	-8.5753	e-002 m	-0.23166 m					
Centroid Y	0.11111 m	0.105	549 m	0.10571 m					
Centroid Z	1.6085e-002 m	-6.2487e-003 m	1.0693e-002 m	1.2126e-004 m					
Moment of Inertia	4.8752e-003 kg·m²	2.0414e-004 kg·m²	1.074e-004 kg·m²	2.4675e-003 kg·m²					
Moment of Inertia Ip2	7.1721e-003 kg·m²	1.3733e-004 kg⋅m²	6.4595e-005 kg·m²	4.7089e-004 kg·m²					
Moment of Inertia	1.2047e-002 kg·m²	3.1326e-004 kg⋅m²	1.7027e-004 kg·m²	2.8016e-003 kg·m²					
		Statistics							
Nodes	2807	379	221	3149					
Elements	1307	52	24	1550					
Mesh Metric		Non	ie						
		CAD Attributes							
PartTolerance:		0.0000	0001						
Color:143.143.175									
Color:143.175.143									

Biggest

TABLE 22 Model (A4, B4) > Geometry > Biggest > Parts

	I						
Object Name	Plate\Plate						
State	Meshed						
Graphics Properties							
Visible	Yes						
Transparency	1						
Def	inition						
Suppressed	No						
Stiffness Behavior	Flexible						
Coordinate System	Default Coordinate System						
Reference Temperature	By Environment						
Treatment	None						
Ma	aterial						
Assignment	AISI 1020 Steel, cold rolled						
Nonlinear Effects	Yes						
Thermal Strain Effects	Yes						
Boun	ding Box						
Length X	0.43713 m						
Length Y	0.48971 m						
Length Z	1.5189e-003 m						
Pro	perties						
Volume	3.2278e-004 m ³						
Mass	2.5403 kg						
Centroid X	-6.5508e-002 m						
Centroid Y	6.888e-003 m						
Centroid Z	2.0875e-002 m						
Moment of Inertia Ip1	5.0134e-002 kg·m²						
Moment of Inertia Ip2	4.0459e-002 kg·m²						
Moment of Inertia lp3	9.0592e-002 kg·m²						
Sta	tistics						
Nodes	3285						
Elements	432						
Mesh Metric	None						
CAD A	Attributes						
PartTolerance:	0.0000001						
Color:175.159.143							

TABLE 23 Model (A4, B4) > Materials

Object Name	Materials					
State	Fully Defined					
Statistics						
Materials	8					
Material Assignments	0					

Coordinate Systems

TABLE 24
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Global Coordinate System					
State	Fully Defined					
Definition						
Type Cartesian						
Coordinate System ID	0.					
Origin						
Origin X	0. m					
Origin Y	0. m					
Origin Z	0. m					
Direction	nal Vectors					
X Axis Data	[1. 0. 0.]					
Y Axis Data	[0. 1. 0.]					
Z Axis Data	[0. 0. 1.]					

Connections

TABLE 25 Model (A4, B4) > Connections

Object Name	Connections					
State	Fully Defined					
Auto Detection						
Generate Automatic Connection On Refresh	Yes					
Transparency						
Enabled	Yes					

TABLE 26
Model (A4, B4) > Connections > Contacts

cions > contacts
Contacts
Fully Defined
n
Contact
Geometry Selection
All Bodies
tion
Slider
0.
1.8391e-003 m
No
Yes
75. °
Off
Include
No
No
Include All
Bodies
Bodies

Statistics						
Connections	479					
Active Connections	479					

TABLE 27

			Model	(A4, B4) > Co	onnections	> Contact	s > Contact	Regions				
Object		Contact	Contact	Contact	Contact	Contact	Contact	Contact	Contact	Contact	Conta	
Name State	Region	Region 2	Region 3	Region 4	Region 5	Region 6 Fully Defin	Region 7	Region 8	Region 9	Region 10	Region	
State					Sc	ope	eu					
Scoping Method						eometry Sel	ection					
Contact	2 Fac	ces	1 Face	2 Fac	ces	1 Face	2 Fa	aces	1 Face	2 Fa	2 Faces	
Target			1 Face	2 Fac		1 Face	2 Fa		1 Face		aces	
Contact Bodies	Scre	ew-1\Screw	<i>ı</i> -1	Scr	ew-2\Screw	-2	Sci	rew-3\Screw-	.3	Screw-4	Screw-4\Screw-4	
Target Bodies	Front- Plate\Front- Plate	Left- Plate- Inner\Left- Plate- Inner	Left- Mounting- Ear\Left- Mounting- Ear	Front- Plate\Front- Plate		Left- Mounting- Ear\Left- Mounting- Ear	Front- Plate\Front- Plate	Right- Plate- Inner\Right- Plate-Inner	Right- Mounting- Ear\Right- Mounting- Ear	Front- Plate\Front- Plate	Right Plate Inner\Ri Plate-In	
rotected						No						
					Defi	nition						
Туре						Bonded						
Scope Mode						Automation	С					
Behavior					Pro	ogram Cont	rolled					
Trim Contact					Pro	ogram Cont	rolled					
Trim olerance					,	1.8391e-00	3 m					
pressed						No						
					Dis	play						
Element Normals						No						
					Adva	anced						
mulation					Pro	ogram Cont	rolled					
Small Sliding					Pro	ogram Cont	rolled					
etection Method					Pro	ogram Cont	rolled					
netration olerance					Pro	ogram Cont	rolled					
stic Slip					Pro	ogram Cont	rolled					
Normal Stiffness					Pro	ogram Cont	rolled					
Update Stiffness					Pro	ogram Cont	rolled					
Pinball Region					Pro	ogram Cont	rolled					
								_				

				C	eometric	Modification					
Contact eometry orrection		None									
Target eometry orrection		None									
			Model (A4, B4) > Co		LE 28 > Contacts > C	Contact Regions	s			
Contact Region 12	Contact Region 13	Contact Region 14	Contact Region 15	Contact	Contact Region 17	Contact Region 18			Contact Region 21	С	
						Fully Defined					
					Sco	ope					
					Ge	eometry Selection	n			1	
	1 Face		4 Faces	1 Face	2 Faces	7 Faces			Face		
	1 Face		4 Faces	1 Face	5 Faces	7 Faces		1	Face		
Screw- Screw-4		t-Plate\Front-	·Plate			l	Left-Plate-Inner\L	_eft-Plate-Inner			
Right- punting- ar\Right- punting- Ear	Left- Plate- Inner\Left- Plate- Inner	Right- Plate- Inner\Right- Plate-Inner	Plate\Plate	Back- Plate\Back- Plate	Left- Mounting- Ear\Left- Mounting- Ear	Guidebar\Left- Guidebar	Screw7\Screw7	Screw8\Screw8	Screw9\Screw9	Sc	
					Dofi	No					
					Deni	nition Bonded					
						Automatic				7	
							•				
						ogram Controlled				_	
					Pro	ogram Controlled	d 				
						1.8391e-003 m					
						No					
					Dis	splay					
						No					
						anced					
					Pro	ogram Controlled	d			-	
					Pro	ogram Controlled	d				
					Pro	ogram Controlled	d				
					Pro	ogram Controlled	d				
	_				Pro	ogram Controlled	d				

	Program Controlled								
			Prog	ram Controlle	ed				
			Prog	ıram Controlle	ed				
		G	eometric Mo	odification					
	None								
	None								
	TABLE 29 Model (A4, B4) > Connections > Contact Regions								
Contact Region 24	Contact Region 25	Contact Region 26	Contact Region 27	Contact Region 28	Contact Region 29	Contact Region 30	Contact Region 31	Cont	
				ully Defined					
			Scop)e					
			Geor	metry Selection	on				
1 Fa	ace		2 Faces	1 Face	2 Faces	7 Faces		1	
1 Fa	ace		2 Faces	1 Face	5 Faces	7 Faces		1	
Left-Plate-	-Inner\Left-Plate-Inr	ner		Right-Plate-Inner\Right-Plate-Inner					
Screw12\Screw12	Screw13\Screw13	Screw14\Screw14	Plate\Plate	Back- Plate\Back- Plate	Right- Mounting- Ear\Right- Mounting- Ear	Right- Guidebar\Right- Guidebar	Screw15\Screw15	Screw	
				No					
			Definiti						
				Bonded					
				Automatic					
			Progr	ram Controlle	ed				
			Progr	ram Controlle	ed				
			1.8	8391e-003 m	i				
			Displa	No					
			Dishig						
				No					
			Advand	i ced Jram Controlle	od				
				ram Controlle					

				Program Controlle	ed				
Program Controlled									
				Program Controlle	∍d				
				Program Controlle	∍d				
				Program Controlle	∍d				
				Program Controlle	 ∋d				
			Geome	tric Modification					
				None					
				None					
		Model (TABLE 30 ions > Contacts >	Contact Red	gions			
gion	Contact Region 35	Contact Region 36	Contact Region 37	Contact Region 38	Contact Region 39	Contact Region 40	Contact Region 41	Contact Region 42	Contac
			1	Fully Defined				<u> </u>	
				Scope					
				Geometry Selection	on				
		1 Face	ı		4 50000	2 Faces		ace	
		1 Face			4 Faces	2 Faces	5 7 6	aces	DI . \ \ D
		Right-Plate-Inr	ner\Right-Plate-Inne	·r					-Plate\B
ew19	Screw20\Screw20	Screw21\Screw21	Screw22\Screw22	Screw23\Screw23	PSK\Solid1	Plate\Plate	Left- Mounting- Ear\Left- Mounting- Ear	Ear\Right-	Screw1
				No Definition					
				Definition Bonded					
				Automatic					
				Program Controlle					
				Program Controlle					
				-					
				1.8391e-003 m No					
				Display					

No														
Advanced														
Program Controlled														
Program Controlled														
	Program Controlled													
	Program Controlled													
Program Controlled														
Program Controlled														
	Program Controlled													
	Program Controlled													
				Geometric Mo	dification									
	None													
	None													
		M	lodel (A4, B4) >	TABLE		Contact Re	gions							
oject ame	Contact Region 45	Contact Region 46			Contact Region 49	Contact Region 50	Contact Region 51	Contact Region 52	Contact Region 53	Contact Region 54				
tate			I	Fu	lly Defined		I							
				Scope	•									
ping thod				Geom	etry Selectio	n								
ntact		3 Fa	aces		6 Fa	Faces 1 Face 2 F				aces				
ırget		2 Fa	aces		6 Fa	ces	1 Face 6 Fac			aces				
ntact dies		Back	-Plate\Back-Plate			Mounting- ∖Left-Mounting-Ear∖Lef Ear								
ırget dies	Screw3\Screw3	Screw4\Screw4	Screw5\Screw5	Screw6\Screw6	Plate\Plate	Left- Mounting- Ear\Left- Mounting- Ear	Left- Guidebar\Left- Guidebar	Left- Nut- 1\Left- Nut-1	Left- Nut- 2\Left- Nut-2	Left- Nut- 3\Left- Nut-3				
cted														
				Definition										
Гуре														
cope														
lode	Adiomatic													
avior	Program Controlled													

Trim		Program Controlled												
Trim		1.8391e-003 m												
ssed		No												
							Display							
nent nals		No												
IIais	Advanced													
ation	Program Controlled													
mall		Program Controlled												
ding ction		<u> </u>												
thod	Program Controlled													
ation ance	Program Controlled													
Slip		Program Controlled												
rmal ness							Program Conti	rolled						
date							Drawra Cant	-alla d						
ness							Program Conti	rollea						
nball gion		Program Controlled												
	_					Geome	etric Modificatio	n						
ntact netry														
ction		None												
irget netry		None												
ction														
							TABLE 32							
				Мс	odel (A4,			s > Contact Regi	ons					
				Contact	Contact			Contact Region		Contact Region	Contac			
me	Region 56	Region 57	Region 58	Region 59	Region 60	Region 61	62	63	64	65				
ate		_					Fully Define	ed	ı	I				
							Scope							
ing nod							Geometry Sele	ection						
act							2 Fa	2 Faces 1 Face						
get	6 Faces					1 Face 2 Faces 1 Face								
act ies							ounting-Ear\Left-	Mounting-Ear						
103	Left-	Left-	Left-	Left-	Left-									
get	Nut-	Nut-	Nut-	Nut-	Nut-	Left-	Scrowd\Scrowd	Screw3\Screw3	Scrowd\Scrowd	Scrow7\Scrow7	Scrow			
ies	5\Left- Nut-5	6\Left- Nut-6	7\Left- Nut-7	8\Left- Nut-8	9\Left- Nut-9	Guidebar	Sciew i/Sciew i	Sciews/Sciews	Sciew4\Sciew4	Sciew/\Sciew/	Screwa			
ted	างนเ-อ	Nul-0	inut-/	INUL-O	INUL-9		No	<u> </u>	<u> </u>	<u> </u>				
							Definition							

Definition

/ре				Bonded								
ppe ode				Automatic								
vior	Program Controlled											
rim act	Program Controlled											
rim nce	1.8391e-003 m											
ed	No											
			Displa	ay								
ent als				No								
			Advan									
ion												
nall ing	Program Controlled											
ion nod	Program Controlled											
ion nce	Program Controlled											
Slip nce	Program Controlled											
mal ess	Program Controlled											
ate ess	Program Controlled											
oall ion			Prog	ram Controlled								
			Geometric Mo	odification								
act etry ion				None								
get etry ion				None								
1011			TADLE									
		Model (A4. B4	TABLE > Connections >	: 33 Contacts > Contac	ct Regions							
tact Region	Contact Region	Contact Region	Contact Region	Contact Region	Contact Region	Contact	Contact Reg					
68	69	70	71	72	73	Region 74	75					
			F: Scop	ully Defined								
				netry Selection								
		4 5000		Tietry Ociocitori		2 5000	4 Face					
		1 Face		1 Face		2 Faces	1 Face					
	Left-Mo	ounting-Ear\Left-Mo	unting-Ear	11 400		Left-Nut-1	I\Left-Nut-1					
v10\Screw10	Screw11\Screw11	Screw12\Screw12	Screw13\Screw13	Screw14\Screw14	Screw16\Screw16	Left- Guidebar\Left- Guidebar	Screw7\Scre					

			_	No									
				Definition Bonded									
				Automatic	_1								
	Program Controlled Program Controlled												
				Program Controlle	d 								
				1.8391e-003 m									
				No									
				Display									
				No									
			A	dvanced									
				Program Controlle									
				Program Controlle	d 								
				Program Controlled	d								
				Program Controlle	d								
				Program Controlle	d								
				Program Controlle	d								
				Program Controlle	d								
				Program Controlle	d								
			Geomet	ric Modification									
				None									
				None									
		Model (A4 I		ABLE 34	`ontact Region	ne.							
ontact Region	Contact	Contact Region	Contact	Contact Region	Contact	Contact Region	Contact	С					
79	Region 80	81	Region 82	83	Region 84	85	Region 86						
				Fully Defined Scope									
				<u> </u>									
				Geometry Selectio									
1 Face	2 Faces	1 Face	2 Faces	1 Face	2 Faces	1 Face	2 Faces						
eft-Nut-3	eft-Nut-3 Left-Nut-4\Left-Nut-4			1 Face Left-Nut-5\Left-Nut-5 Left-Nut-6\Left-Nut-6 Le				ıt-7\L					

crew9\Screw9	Left- Guidebar\Left- Guidebar	Screw10\Screw10	Left- Guidebar\Left- Guidebar	Screw11\Screw11	Left- I Guidebar\Left- Guidebar	Screw12\Screw12	Lef 2 Guideba Guide	oar\Left-	Sci
				Definition NO					
				Bonded					
				Automatic					,
				Program Controlle	ed				
				Program Controlle					
				1.8391e-003 m					
				No					
				Display					
				No					
			1	Advanced					
				Program Controlle					
Program Controlled									
Program Controlled									
				Program Controlle	ed				
				Program Controlle	ed				
				Program Controlle	ed				
				Program Controlle	ed				
				Program Controlle	ed				
			Geome	etric Modification					
				None					
				None					
		Model (A4.		TABLE 35	Contact Regio	ine			
Object Cont Name	tact Region 89		tact Region	Contact Region 93	Region Contact	Contact Contact			
State		,		Fully Defined					
-1				Scope					
coping //ethod				Geometry Selection	on				
	1 Face	2 Faces 1	1 Face 6	Faces 1 Fac	;е	2 Fac	ces		

Target		1 Face		6 Faces	1 Face	6 Faces							
Contact Bodies	Left-Nut-8\Left- Nut-8	Left-Nut-	-9\Left-Nut-9	Ear_Rear\	t-Mounting- Right-Mounting- Ear	R	ight-Mou	nting-Ear	\Right-M	ounting-E	Ear		
Target Bodies	Screw14\Screw14	Left- Guidebar\Left- Guidebar	Screw16\Screw16	Right- Mounting- Ear\Right- Mounting- Ear	Right- Guidebar\Right- Guidebar	Right- Nut- 1\Right- Nut-1	Right- Nut- 2\Right- Nut-2	Right- Nut- 3\Right- Nut-3	Right- Nut- 4\Right- Nut-4	Right- Nut- 5\Right- Nut-5	R 1 1/6 N		
tected					No					·			
				Definition									
Type				E	Bonded								
Scope Mode				Αι	utomatic								
havior	, and the second												
Trim Contact	Program Controlled												
Trim erance	1.8391e-003 m												
ressed	No												
				Display	<i>!</i>								
lement ormals	NO												
				Advance									
ulation Small				Progra	m Controlled								
Sliding				Progra	m Controlled								
tection Method				Progra	m Controlled								
etration erance				Progra	m Controlled								
tic Slip erance				Progra	m Controlled								
Normal iffness				Progra	m Controlled								
Jpdate iffness				Progra	m Controlled								
Pinball Region				Progra	m Controlled								
- g. 511			Geo	metric Mod	lification								
Contact ometry rection					None								
Target ometry rection	None												

TABLE 36
Model (A4, B4) > Connections > Contacts > Contact Regions

Contact Region 101	Contact Region 102	Contact Region 103	Contact Region 104	Contact Region 105	Contact Region 106	Contact Region 107	Contact Region 108	Contact Regi 109
--------------------------	--------------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	---------------------

					Fully Defined					
				S	Scope					
					Seometry Selection	'n				
Faces		1 Face	3 Faces	2 Fa	aces			ace		
Faces		1 Face	2 Faces			1	1 Face			
				Right-Moun	nting-Ear\Right-Mo	ounting-Ear				
Right- Nut- 3\Right- Nut-8	Right- Nut- 9\Right- Nut-9	Right- Guidebar\Right- Guidebar	Screw2\Screw2	Screw5\Screw5		Screw15\Screw15	Screw17\Screw17	Screw18\Screv		
					No					
				Det	finition					
					Bonded					
					Automatic					
	Program Controlled									
	Program Controlled									
					1.8391e-003 m					
					No					
				Di	isplay					
					No					
					vanced					
				P	Program Controlled	d				
				P	Program Controlled	d				
				P	Program Controlled	d				
				P	Program Controlled	d				
				Р	Program Controlled	d				
				P	Program Controlled	:d				
				P	Program Controlled	:d				
	Program Controlled									
	Geometric Modification									
	None									
	None									

TABLE 37
Model (A4, B4) > Connections > Contacts > Contact Regions

			, 1,	P COINCACTO P CC	illust itogisilo						
ct Region 112	Contact Region 113	Contact Region 114	Contact Region 115	Contact Region 116	Contact Region 117	Contact Region 118	Contact Region 119				
		1		Fully Defined		-					
			Sco								
			Ger	ometry Selection							
	1 Face			2 Faces	1 Face	2 Faces	1 Face				
				1 Face							
Right-Mou	unting-Ear\Right-Mo	ounting-Ear		Right-Nut-	1\Right-Nut-1	Right-Nut-	2\Right-Nut-2				
:1\Screw21	Screw22\Screw22	Screw23\Screw23	Screw24\Screw24	Right- Guidebar\Right- Guidebar	Screw15\Screw15	Right- Guidebar\Right- Guidebar	Screw17\Screv				
				No							
			Defin								
				Bonded							
				Automatic							
	Program Controlled										
			Pro	ogram Controlled							
			1	1.8391e-003 m							
				No							
			Disp	olay							
				No							
			Adva								
			Pro	ogram Controlled							
			Pro	ogram Controlled							
			Pro	ogram Controlled							
			Pro	ogram Controlled							
			Prc	ogram Controlled							
			Prc	ogram Controlled							
			Prc	ogram Controlled							
			Prc	ogram Controlled							
			Geometric N	Modification							
				nouniou.							
				None							

		Model (A4.		ABLE 38 ns > Contacts > Co	ontact Regions					
act Region 123	Contact Region 124	Contact Region 125	Contact Region 126		Contact Region 128	Contact Region 129	Contact Region 130			
				Fully Defined						
				Scope						
				Geometry Selection	ı					
1 Face	2 Faces	1 Face	2 Faces	1 Face	2 Faces	1 Face	2 Faces			
				1 Face						
-Nut-4	Right-Nut-	5\Right-Nut-5	Right-Nut-	6∖Right-Nut-6	Right-Nut-7	7∖Right-Nut-7	Right-Nut-			
19\Screw19	Right- Guidebar\Right- Guidebar	Screw20\Screw20	Right- Guidebar\Right- Guidebar	Screw21\Screw21	Right- Guidebar\Right- Guidebar	Screw22\Screw22	Right- Guidebar\Right- Guidebar			
				No						
			De	efinition						
				Bonded						
	Automatic									
				Program Controlled						
				Program Controlled						
				1.8391e-003 m						
				No						
			[Display						
				No						
				dvanced						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				Program Controlled						
				ic Modification						
			Geometr	ic wodification						

				None			
				None			
		Mode ¹	I (A4 B4) > Conne	TABLE 39 ections > Contacts :	> Contact Regions		
t Region 134	Contact Region 135	Contact Region 136		Contact Region 138	Contact Region 139	Contact Region 140	Contact Region 141
				Fully Defined Scope	į .		
				Geometry Selec	etion		
	8 F			2 Faces			8 Faces
					2 Faces		014000
			l	Left-Guidebar\Left-G	Guidebar		
r\Screw7	Screw8\Screw8	Screw9\Screw9	Screw10\Screw10	Screw11\Screw11	Screw12\Screw12	Screw13\Screw13	Screw14\Screw14
				No			
				Definition Bonded			
				Automatic			
				Program Contro	olled		
				Program Contro			
				1.8391e-003 r	 m		
				No			
				Display			
				No			
				Advanced			
				Program Contro			
				Program Contro	illed		
				Program Contro	illed		
				Program Contro	ılled		
				Program Contro	olled		
				Program Contro	olled		
				Program Contro	olled		
4							

			Program Co	ntrolled						
		G	eometric Modificat	tion						
			None	Э						
			N				+			
			None	,						
	Mc	odel (A4, B4) > Cor	TABLE 40 nnections > Contac	cts > Contact Regio	ons					
Contact Region 145	Contact Region 146	Contact Region 147	Contact Region 148	Contact Region 149	Contact Region 150	Contact Region 151				
			Fully Def	ined						
	Scope									
Geometry Selection										
8 Faces 2 Faces 8 Faces										
2 Faces										
	<u> </u>	Right-Guidebar\	∖Right-Guidebar	T	T		\vdash			
Screw18\Screw18	Screw19\Screw19	Screw20\Screw20		Screw22\Screw22	Screw23\Screw23	Screw24\Screw24	S			
			No							
			Definition Bonde	ad						
			Automa							
			Program Co				-			
			Program Col				_			
			1.8391e-0)03 m			_			
			No				\dashv			
			Display							
			No							
			Advanced							
			Program Co				4			
			Program Co	ntrolled						
			Program Co	ntrolled						
			Program Co	ntrolled			ļ			
			Program Co	ntrolled						

						Program Co	ontrolled				
						Program Co	ontrolled				
						Program Co	ontrolled				
					Geor	metric Modificat	tion				
						None)				
						None	9				
			N	lodel (A4, I	B4) > Conne	TABLE 41 ections > Conta	cts > Contact	Regions			
ject ime	Contact Region 155	Contact Region 156	Contact Region 157	Contact Region 158	Contact Region 159	Contact Region 160	Contact Region 161	Contact Region 162	Contact Region 163	Contact Region 164	C Re
tate	. 30	. 30		. 50		Fully Def	fined		l	I	
						Scope					
oing hod						Geometry S	election				
tact											
rget			1 Face					11 Face	es		
tact dies						Board\B	oard				
rget dies	PCI- Slots\PCI- 4	PCI- Slots\PCI- 5	PCI- Slots\PCI- 6	PCI- Slots\PCI- 7	Base\Base	DIMM_SCREW	_RETAINER_V	'ERTICAL1\DI	MM_SCREW_	_RETAINER_	_VEF
cted						No					
						Definition					
ype						Bonde	ed				
ope ode						Automa	atic				
vior						Program Co	ntrolled				
rim tact						Program Co	ontrolled				
rim nce						1.8391e-0	003 m				
sed						No Display					
nent											
nals						No					
						Advanced					
tion						Program Co					
mall ding						Program Co	ontrolled				
tion hod						Program Co	ontrolled				

tion nce		Prograi	m Controlle	d						
Slip		Prograi	m Controlle	ed						
nce mal		Prograi	m Controlle	ed						
less date										
ess ball		Prograi	m Controlle	ed						
gion			m Controlle	d						
toot	Geoi	metric Mod	ification							
tact etry tion			None							
rget etry tion	etry None									
	Model (A4, B4) > Conne	TABLE 4 ections > C		Contact Re	egions					
ion 166 Contact Region 167 Contact Contact Contact Contact Contact Contact Contact Region Region Region Region Region Region 170 171 172 173 174										
			y Defined		ı					
		Scope								
			try Selection	on						
	11 F	aces 1	Face							
			ard\Board							
NER_VERTICAL1	\DIMM_SCREW_RETAINER_VERTICAL1	DIMM_SCI	REW_RET	AINER_VE	RTICAL2\[DIMM_SCF	REW_RET	AINER_VE		
		1	No							
		Definitio								
			Bonded							
			ıtomatic	.1						
			m Controlle							
		Prograi	m Controlle	d						
		1.839	91e-003 m							
		Display	No							
		Display	No							
		Advance								
			m Controlle	d						
		Prograi	m Controlle	ed						

TABLE 43

Model (A4, B4) > Connections > Contacts > Contact Regions

Contact Contact

Object Name	Region		Region	Contact Region	Region	Region	Region	Region	Region	Region	Region
	177	178	179	180	181	182	183	184	185	186	187
State						ılly Define	ed				
					Scop	е					
Scoping Method					Geon	netry Sele	ection				
Contact		1 Face									
Target		40 Faces 4 Faces									
Contact Bodies		Board\Board									
Target Bodies		DIMM_SLOT\DIMM_SLOT DIMM1_CHIP\DIMM1_CHIP									
Protected						No					
					Definit	ion					
Туре						Bonded					
Scope Mode					,	Automatio	;				
Behavior					Progr	am Conti	rolled				
Trim Contact					Progr	am Conti	rolled				
Trim Tolerance					1.8	391e-003	3 m				
Suppressed						No					
					Displa	ay					
Element Normals						No					
					Advand	ced					
Formulation					Progr	am Conti	rolled				

Small Sliding	Program Controlled
Detection Method	Program Controlled
Penetration Tolerance	Program Controlled
Elastic Slip Tolerance	Program Controlled
Normal Stiffness	Program Controlled
Update Stiffness	Program Controlled
Pinball Region	Program Controlled
	Geometric Modification
Contact Geometry Correction	None
Target Geometry Correction	None

TABLE 44
Model (A4, B4) > Connections > Contacts > Contact Regions

Object Name	Contact Region 188		Contact Region 190	Contact Region 191	Contact Region 192	Contact Region 193	Contact Region 194	Contact Region 195	Contact Region 196	Contact Region 197	Contact Region 198
State						Fully De Scope	Tinea				
Scoping Method						Geometry S	Selection				
Contact						1 Fac	ce				
Target		4 Fa	aces					1 Face			
Contact Bodies						Board\B	oard				
Target Bodies	DIMM	//1_CHIP	\DIMM1_	CHIP	1\PEM-	PEM- Fastener- 2\PEM- Fastener- 2	3∖PEM-	PEM- Fastener- 4\PEM- Fastener- 4	5\PEM-	PEM- Fastener- 6\PEM- Fastener- 6	7∖PEM-
Protected						No					
					De	finition					
Туре						Bond	ed				
Scope Mode						Autom	atic				
Behavior					ſ	Program Co	ontrolled				
Trim Contact		Program Controlled									
Trim Tolerance		1.8391e-003 m									
Suppressed						No					

	Display					
Element Normals	No					
	Advanced					
Formulation	Program Controlled					
Small Sliding	Program Controlled					
Detection Method	Program Controlled					
Penetration Tolerance	Program Controlled					
Elastic Slip Tolerance	Program Controlled					
Normal Stiffness	Program Controlled					
Update Stiffness	Program Controlled					
Pinball Region	Program Controlled					
	Geometric Modification					
Contact Geometry Correction	None					
Target Geometry Correction	None					

TABLE 45
Model (A4, B4) > Connections > Contacts > Contact Regions

			uci (A+, D	.,	000.0110 /		> Contac	rt i togioii			
Object Name	Contact Region 199	Contact Region 200	Contact Region 201	Contact Region 202	Contact Region 203	Contact Region 204	Contact Region 205	Contact Region 206	Contact Region 207	Contact Region 208	Contact Region 209
State					F	ully Define	ed				
					Sco	эе					
Scoping Method											
Contact						1 Face					
Target	1 Face					2 Faces	1 Face				
Contact Bodies					Е	Board∖Boaı	rd				
Target Bodies	PEM- Fastener- 8\PEM- Fastener- 8	Screw- 1\Screw- 1	Screw- 2\Screw- 2	Screw- 3\Screw- 3	Screw- 4\Screw- 4	Screw- 5\Screw- 5	Screw- 6\Screw- 6	Screw- 7\Screw- 7	Screw- 8\Screw- 8	Nut- 1\Nut-1	Standoff- 1\Standoff- 1
Protected						No					
	Definition										
Туре						Bonded					
Scope Mode		Automatic									

Behavior	Program Controlled					
Trim Contact	Program Controlled					
Trim Tolerance	1.8391e-003 m					
Suppressed	No					
	Display					
Element Normals	No					
	Advanced					
Formulation	Program Controlled					
Small Sliding	Program Controlled					
Detection Method	Program Controlled					
Penetration Tolerance	Program Controlled					
Elastic Slip Tolerance	Program Controlled					
Normal Stiffness	Program Controlled					
Update Stiffness	Program Controlled					
Pinball Region	Program Controlled					
	Geometric Modification					
Contact Geometry Correction	None					
Target Geometry Correction	None					

TABLE 46
Model (A4, B4) > Connections > Contacts > Contact Regions

213	Contact Region 214	Contact Region 215	Contact Region 216	Contact Region 217

Fully Defined

Scope

Geometry Selection

1 Face	2 Faces	1 Face

	1 Face				
ER_SCREW1	_A	DIMM_SCREW_RETAINER_SCRE	W1\DIMM_SCREW_RETAINER_SC	CREW1_B	
INER_TOP_ V_RETAINE DE	DIMM_SCREW_RETAINER_VER TICAL1\DIMM_SCREW_RETAIN ER_VERTICAL1		UTSIDE\DIMM_SCREW_RETAINER TICAL1\DIMM_SCREW_RETAIN HIP\DII		
		No			
		Definition			
		Bonded			
		Automatic			
		Program Controlled			
		Program Controlled			
		1.8391e-003 m			
		No			
		Display			
		No			
		Advanced			
		Program Controlled			
		Program Controlled			
		Program Controlled			
		Program Controlled			

		Program Controlled				
Program Controlled						
Program Controlled						
	Program Controlled					
		Geometric Modification				
		None				
		None				
	Model (A4, B4)	TABLE 47) > Connections > Contacts > Cont	tact Regions			
Contact Region 224	Contact Region 225	Contact Region 226	Contact Region 227	Con		
		Fully Defined				
		Scope				
		Geometry Selection				

	1 Face 2 Faces					
		2 Faces				
R_S	R_SCREW1_B DIMM_SCREW_RETAINER_SCREW1\DIMM_SCREW_RETAINER_SCREW1_A					
_VE ETAI	DIMM1_C DIMM_SCREW_RETAINER_SC DIMM_SCREW_RETAINER_TOP_ DIMM_SCREW_RETAINER_TOP DIMM_SCREW_TOP DIMM_SCREW_TOP DIMM_SCREW_TOP DIMM_SCREW_TOP DIMM_SCREW_TOP DIMM_SCREW_TOP DIMM				DIMM_SC RTICAL1\E NE	
			No			
			Definition			
			Bonded			
			Automatic			
			Program Controlled			
			Program Controlled			
			1.8391e-003 m			
			No			
			Display			
			No			
	Advanced					
	Program Controlled					
	Program Controlled					
	Program Controlled					

	Prog	gram Controlled				
	Program Controlled					
	Program Controlled					
	Program Controlled					
	Prog	gram Controlled				
	Geometric	c Modification				
		None				
		None				
		BLE 48 ns > Contacts > Contact Region	ons			
Contact Region 235	Contact Region 236	Contact Region 237	Contact Region 238	Contact Region 239		
	F	ully Defined				
	\$	Scope				

Geometry Selection

1 Face		2 Faces	1 Face			
1 Face				2 Faces		
DIMM_SCREW_RETAINER_SCREW1\DIMM_SCREW_RETAINER_SCREW1 _B						
DIMM_SCREW_RETAINER_V RTICAL1\DIMM_SCREW_RE TAINER_VERTICAL1	DIMM_SCREW_RETAINER_TOP _OUTSIDE\DIMM_SCREW_RET AINER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_V ERTICAL1\DIMM_SCREW_RE TAINER_VERTICAL1		DIMM_SCREW_RETAIN SCREW1\DIMM_SCREW TAINER_SCREW1_		
		No	1			
	Def	finition				
		Bonded				
	,	Automatic				
	Progr	ram Controlled				
	Progr	ram Controlled				
	1.8	3391e-003 m				
		No				
	Di	isplay				
	No No					
	Adv	vanced				
	Progr	ram Controlled				
	Prog	ram Controlled				

Program Controlled	
Program Controlled	
Geometric Modification	
None	
None	

egion 246	Contact Region 247	Contact Region 248	Contact Region 249	C
		Fully Defined		
		Scope		
		Geometry Selection		
2	Faces		1 Face	
			1 Face	
DIN	MM_SCREW_RETAINER_SCREW1\D	DIMM_SCREW_RETAINER_SCREW	/1_A	DIMM_S
RETAINER_SC CREW_RETAIN REW1_B	DIMM_SCREW_RETAINER_TOP_ OUTSIDE\DIMM_SCREW_RETAIN ER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_TOP _INSIDE\DIMM_SCREW_RETAIN ER_TOP_INSIDE	DIMM_SCREW_RETAINER_VE RTICAL1\DIMM_SCREW_RETAI NER_VERTICAL1	DIMM_S(OUTSIDE EF
		No		
		Definition		
		Bonded		
		Automatic		
		Program Controlled		
		Program Controlled		
		1.8391e-003 m		
		No		
		Display		
		No		
		Advanced		

Program Controlled
Program Controlled
Geometric Modification
None
None

TABLE 50
Model (A4, B4) > Connections > Contacts > Contact Regions

	model (A4, B4) > collication	iio > Ooiitat	713 / Oomaot Regions	
Contact Region 257	Contact Region 258	Contact Region 259	Contact Region 260	Contact Region 261
	F	ully Defined		
		Scope		
	Geo	metry Selec	tion	
	2 Faces	1 Face	2	Faces
			2 Faces	
DIMM_SCREW_RETAINER_SCR	EW1\DIMM_SCREW_RETAINEI	R_SCREW	DIMM	_SCREW_RETAINER_SCR
IMM_SCREW_RETAINER_TOP OUTSIDE\DIMM_SCREW_RET AINER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_V ERTICAL1\DIMM_SCREW_RE TAINER_VERTICAL1	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_ SCREW1\DIMM_SCREW_RE TAINER_SCREW1_B	DIMM_SCREW_RETAINER _OUTSIDE\DIMM_SCREW AINER_TOP_OUTSID
		No		
	De	finition		
		Bonded		
		Automatic		
	Prog	gram Contro	lled	
Program Controlled				
1.8391e-003 m				
No				
	D	Display		
		No		

Advanced	
Program Controlled	
Geometric Modification	
None	
None	

		ABLE 51 ons > Contacts > Contact Regions			
ntact Region 268	Contact				
		Fully Defined			
		Scope			
	Geo	ometry Selection			
	1 Face	2 Faces		1 Face	
	1 Face	2 Faces		1 F	
SCREW_RETAINER_SCR	EW2\DIMM_SCREW_RETAINER_SCR	REW2_A		DIMM_SCREV	
W_RETAINER_TOP_OU _SCREW_RETAINER_TO P_OUTSIDE		DIMM_SCREW_RETAINER_VERTI CAL2\DIMM_SCREW_RETAINER_ VERTICAL2			
		No			
	De	efinition			
		Bonded			
		Automatic			
	Pro	gram Controlled			
	Pro	gram Controlled			
	1	.8391e-003 m			
		No			
		Display			
		No			

Advanced
Program Controlled
Geometric Modification
None
None

TABLE 52
Model (A4, B4) > Connections > Contacts > Contact Regions

		, , ,			
	Contact Region 279	Contact Region 280	Contact Region 281	Contact Region 282	Contact Region 283
			Fully Defined		
			Scope		
			Geometry Selection		
		1 Face	2 Faces	1 Face	2
		1 Face			2 Faces
		DIMM_SCREW_RETAINER_SCRE	W2\DIMM_SCREW_RETAINER_S	CREW2_B	DIN
_VE ETAI	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_TOP_ OUTSIDE\DIMM_SCREW_RETAIN ER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_VE RTICAL2\DIMM_SCREW_RETAI NER_VERTICAL2	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_SC REW2\DIMM_SCREW_RETAIN ER_SCREW2_B
			No		
			Definition		
			Bonded		
			Automatic		
			Program Controlled		
			Program Controlled		
			1.8391e-003 m		
			No		
			Display		
			No		

Advanced
Program Controlled
Geometric Modification
None
None

		Model (A4, B4	TABLE 53 I) > Connections > Contacts > Conta	act Regions	
	Contact Region 290	Contact Region 291	Contact Region 292	Contact Region 293	Con
			Fully Defined	,	
			Scope		
			Geometry Selection		
	1 Face	2	Faces	1 Face	
		2 Faces		1 Face	
R_S(CREW2_B		DIMM_SCREW_RETAINER_SCRE	EW2\DIMM_SCREW_RETAINER_S	CREW2_A
VE TAI	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_SC REW2\DIMM_SCREW_RETAIN ER_SCREW2_B	DIMM_SCREW_RETAINER_TOP_ OUTSIDE\DIMM_SCREW_RETAIN ER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_TOP _INSIDE\DIMM_SCREW_RETAIN ER_TOP_INSIDE	
			No		
			Definition		
			Bonded		
			Automatic		
			Program Controlled		
			Program Controlled		
			1.8391e-003 m		
			No		
			Display		
4					

None

	Mc	TABLE 54 odel (A4, B4) > Connections > Con	itacts > Con	tact Regions	
	Contact Region 301	Contact Region 302	Contact Region 303	Contact Region 304	Cor
ı		Fully Defin	ned		
		Scope			
		Geometry Sel	lection		
	1 Face	2 Faces		1 Face	
	1 Face	2 Faces		1 Face	
CRE	EW2\DIMM_SCREW_RETAINER_S(EW2\DIMM_SCREW_RETAINER_SCREW2_A DIMM_SCREW_RETAINER_SCREW2\D			:W2\DIMM_
_O ER	DIMM_SCREW_RETAINER_TOP _INSIDE\DIMM_SCREW_RETAIN ER_TOP_INSIDE	DIMM_SCREW_RETAINER_VER TICAL2\DIMM_SCREW_RETAIN ER_VERTICAL2		DIMM_SCREW_RETAINER_TOP_O UTSIDE\DIMM_SCREW_RETAINER _TOP_OUTSIDE	
		No			
		Definition			
		Bonded	t		
		Automati	ic		
		Program Con	itrolled		
		Program Con	itrolled		
		1.8391e-00)3 m 		
		No			

Display
No
Advanced
Program Controlled
Geometric Modification
None
None

TABLE 55 Model (A4, B4) > Connections > Contact Regions								
ontact Region 312	Contact Region 313	Contact Region 314	Contact Region 315	Contact Re				
		Fully Defined						
	•	Scope						
	Geo	ometry Selecti	ion					
Face	2 Faces	1 Face	2 Faces					
1 Face	2 Faces							
SCREW_RETAINER_SCRE	EW2\DIMM_SCREW_RETAINER_SCR	REW2_B	DIMM_SCREW					
EW_RETAINER_TOP_OU M_SCREW_RETAINER_T OP_OUTSIDE	DIMM_SCREW_RETAINER_VERTI CAL2\DIMM_SCREW_RETAINER_ VERTICAL2	DIMM1_CH IP\DIMM1_ CHIP	DIMM_SCREW_RETAINER_SCR EW2\DIMM_SCREW_RETAINER_ SCREW2_B	DIMM_SCREW_RETTSIDE\DIMM_SCRE				
		No						
	Dc	efinition						
		Bonded						
		Automatic						
	Pro	gram Controll	ed					
	Pro	gram Controll	ed					
	1	.8391e-003 m	1					
		No						
	Γ	Display						

None

TABLE 56 Model (A4, B4) > Connections > Contact Regions							
ntact Region 323	Contact Region 324	Contact Region 325	Contact Region 326				
		Fully Defined					
		Scope					
	Geo	ometry Selection					
2	Faces	1 Face	2 Faces				
Faces		1 Face	2 Faces				
	DIMM_SCREW_RETAINER_SCR	EW2\DIMM_SCREW_RETAINER_SCF	REW2_A				
REW_RETAINER_SCR /I_SCREW_RETAINER_ SCREW2_B		DIMM_SCREW_RETAINER_TOP_I NSIDE\DIMM_SCREW_RETAINER_ TOP_INSIDE	DIMM_SCREW_RETAINER_VE CAL2\DIMM_SCREW_RETAINE VERTICAL2				
		No					
	De	efinition Pended					
		Bonded					
		Automatic					
	Pro	ogram Controlled					
	Pro	ogram Controlled					
	1	.8391e-003 m					
		No					
		Display					
		No					

Advanced
Program Controlled
Geometric Modification
None
None

	Contact Region 334	Contact Region 335	Contact Region 336	Contact Region 337	Cor					
			Fully Defined							
			Scope							
			Geometry Selection							
2 Fa	aces	4 Faces	6 Faces	19 Faces						
1 Face		5 Faces	6 Faces	17 Faces						
	DIMM_SCRE	W_RETAINE	R_TOP_OUTSIDE\DIMM_SCREW_R	ETAINER_TOP_OUTSIDE						
_VE ETAI	DIMM_SCREW_RETAINER_VE RTICAL2\DIMM_SCREW_RETAI NER_VERTICAL2	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_TOP_ OUTSIDE\DIMM_SCREW_RETAIN ER_TOP_OUTSIDE	DIMM_SCREW_RETAINER_TOP _INSIDE\DIMM_SCREW_RETAIN ER_TOP_INSIDE	DIMM_SC RTICAL1\I NE					
			No							
			Definition							
			Bonded							
			Automatic							
			Program Controlled							
	Program Controlled									
			1.8391e-003 m							
			No							
			Display							
			No							
			Advanced							
l										

Program Controlled
Program Controlled
Geometric Modification
None
None

TABLE 58
Model (A4, B4) > Connections > Contacts > Contact Regions

	Model (A4, B4) > Connections > Contacts > Contact Regions								
	Contact Region 345	Lightact Pagion 2/6 Lightact Pagion 2/1/ Lightact Pagion 2/1/ Lightact Pagion 2/18		Contact Region 349					
			Fully Defined						
			Scope						
	Geometry Selection								
	4 Faces	19 Faces	2 Fa	ices	4 Faces				
	5 Faces	17 Faces	1 Fa	ace	5 Faces				
	DIMM_SCREW_RETAINER_TOP_OUTSIDE\DIMM_SCREW_RETAINER_TOP_OUTSIDE								
'ER AIN	DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_TOP _INSIDE\DIMM_SCREW_RETAIN ER_TOP_INSIDE	DIMM_SCREW_RETAINER_VER TICAL1\DIMM_SCREW_RETAIN ER_VERTICAL1	DIMM_SCREW_RETAINER_VER TICAL2\DIMM_SCREW_RETAIN ER_VERTICAL2	DIMM1_C I HIP\DIMM I 1_CHIP				
			No						
			Definition						
			Bonded						
			Automatic						
			Program Controlled						
			Program Controlled						
	1.8391e-003 m								
	No								
			Display						
	No								

Advanced
Program Controlled
Geometric Modification
None
None

TABLE 59
Model (A4, B4) > Connections > Contacts > Contact Regions

	model (714) B4) >	Commoditions Commadia & Comma	or regions				
Region 356	Contact Region 357	Contact Region 358	Contact Region 359	Contact Region 360			
	·	Fully Defined					
		Scope					
		Geometry Selection					
Faces	2 Fa	aces	4 Faces	6 Faces			
Faces	1 F	ace	5 Faces	6 Faces			
	DIMM_SCREW_RETAINER_TOP_OUTSIDE\DIMM_SCREW_RETAINER_TOP_OUTSIDE						
_RETAINER_TOP			DIMM1_C HIP\DIMM 1_CHIP	DIMM_SCREW_RETAINER_TOP OUTSIDE\DIMM_SCREW_RETAIL ER_TOP_OUTSIDE			
		No					
		Definition					
		Bonded					
		Automatic					
		Program Controlled					
		Program Controlled					
		1.8391e-003 m					
	No						
		Display					
	No						

Advanced
Program Controlled
Geometric Modification
None
None

TABLE 60
Model (A4, B4) > Connections > Contacts > Contact Regions

	nouel (A4, B4)	> Connections > Contacts > Contact N	kegions .		
Contact Region 367 Cont Region		Contact Region 369	Contact Region 370	F	
		Fully Defined			
		Scope			
		Geometry Selection			
	4 Faces				
	5 Faces	1 F	ace		
ER_TOP_OUTSIDE			DIMM_SCREW_RETAINER	_T(
MM_SCREW_RETAINER_VERTICA DIMM_SCREW_RETAINER_VERTI CAL2	DIMM1_CHI P\DIMM1_C HIP	DIMM_SCREW_RETAINER_VERTICA L1\DIMM_SCREW_RETAINER_VERTI CAL1	DIMM_SCREW_RETAINER_VERTICA L2\DIMM_SCREW_RETAINER_VERTI CAL2	D P	
		No			
		Definition			
		Bonded			
		Automatic			
		Program Controlled			
		Program Controlled			
		1.8391e-003 m			
		No			
		Display			
No					
		Advanced			
Program Controlled					

		Program Controlled	1	
		Program Controlled	1	
		Program Controlled	1	
		Program Controlled	3	
		Program Controlled	1	
		Program Controlled	1	
		Program Controlled	ť	
	Geom	netric Modification		
		None		
		None		
	Model (A4, B4) > Connec	TABLE 61 ctions > Contacts >	> Contact Regions	T
ontact Region 378	Contact Region 379	Contact Region 380	Contact Region 381	Contact Re
		Fully Defined		
		Scope		
	(Geometry Selection	1	

		1 Face						
1 F	-ace	3 Faces	1 F	ace				
	DIMM_SCREW_RETAINER_TOP_INSIDE\DIMM_SCREW_RETAINER_TOP_INSIDE							
REW_RETAINER_VERTI I_SCREW_RETAINER_V ERTICAL1	DIMM_SCREW_RETAINER_VERTI CAL2\DIMM_SCREW_RETAINER_V ERTICAL2			DIMM_SCREW_RI CAL2\DIMM_SCRE ERTIC				
		No						
	D	Definition						
		Bonded						
		Automatic						
	Pro	ogram Controll	led					
	Pro	ogram Controll	led					
		1.8391e-003 m	n 					
		No						
		Display						
		No						
	Α	Advanced						
	Program Controlled							
Program Controlled								
	Program Controlled							
	Pro	ogram Controll	led					

	Program Controlled							
	Pro	gram Controlled						
	Pro	gram Controlled						
	Pro	gram Controlled						
	Geometr	ic Modification						
	None None							
		ABLE 62 ns > Contacts > Contact Regions						
Contact Region 389	Contact Region 390	Contact Region 391	Contact Region 392					
		Fully Defined						
		Scope						
	Geometry Selection							
1 Face								
3 Faces	1 Fa	ace	3 Faces					

OP_	_INSIDE\DIMM_\$	SCREW_RETAINER_TOP_INSIDE						
_2\ L2								
No								
		D	efinition					
			Bonded					
			Automatic					
		Pr	ogram Controlled					
		Pr	ogram Controlled					
1.8391e-003 m								
			No					
			Display					
			No					
		A	dvanced					
		Pr	ogram Controlled					
		Pr	ogram Controlled					
		Pr	ogram Controlled					
	Program Controlled							
	Program Controlled							
	Program Controlled							

	Program Controlled							
	Program Controlled							
			Geome	etric Modification				
	None							
	None							
		Model		TABLE 63 tions > Contacts > C	contact Regions			
	Contact Region 400	Contact Region 401	Contact Region 402	Contact Region 403	Contact Region 404			
				Fully Defined				
				Scope				
				Geometry Selection				
	129 Faces	42 Faces	129 Faces	42 Faces	10 Faces			
	98 Faces	17 Faces	98 Faces	17 Faces	10 Faces			
	DIMM_SCREW_RETAINER_VERTICAL1\DIMM_SCREW_RETAINER_VERTICAL1							
,	DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SCREW_RETAINER_VERTICAL1\DIMM_SC RETAINER_VERTICAL1			
	No							
	Definition							
	Bonded							
				Automatic				
	Program Controlled							

No

Program Controlled

1.8391e-003 m

Display

			No			
			Advanced			
			Program Controlled			
			Program Controlled			
			Program Controlled			
	Program Controlled					
			Program Controlled			
			Program Controlled			
			Program Controlled			
			Program Controlled			
		Geome	etric Modification			
			None			
			None			
	Model		TABLE 64 tions > Contacts > C	Contact Regions		
Contact Region 411	Contact Region 412	Contact Region 413	Contact Region 414			
			Fully Defined			
Scope						
	Geometry Selection					
129 Faces	42 Faces	129 Faces	42 Faces	10 Faces		
98 Faces	17 Faces	98 Faces	17 Faces	10 Faces		
SCREW_RETAINER_	VERTICAL1			DIMM_SCRE\		
DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SCREW_RETAINER_VERTICAL2\DIMM_SC RETAINER_VERTICAL2		

No
Definition Bonded
Automatic
Program Controlled
Program Controlled
1.8391e-003 m
No
Display
No
Advanced
Program Controlled
Geometric Modification
None
None

	TABLE 65 Model (A4, B4) > Connections > Contact Regions							
Contact Region 423 Contact Region 424 Contact Region 425 Contact Region 426								
				Fully Defined				
				Scope				
				Geometry Selection				
	128 Faces	42 Faces	128 Faces	42 Faces	10 Faces			
	99 Faces	13 Faces	99 Faces	13 Faces	10 Faces			
		DIMM_SCR	EW_RETAINER_VE	ERTICAL2\DIMM_SC	REW_RETAINER_VERTICAL2			
_	DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SLOT\DIM M_SLOT	DIMM1_CHIP\DIM M1_CHIP	DIMM_SCREW_RETAINER_VERTICAL2\DIMM_SC RETAINER_VERTICAL2			
				No				
				Definition				
				Bonded				
				Automatic				
				Program Controlled				
				Program Controlled				
				1.8391e-003 m				
				No				
				Display				
				No				
				Advanced				
				Program Controlled				
				Program Controlled				
	Program Controlled							
	Program Controlled							
	Program Controlled							

	Program Controlled							
		Program Controlled						
		Program Controlled						
	Geo	ometric Modification						
		None						
		None						
	Model (A4, B4) > Conr	TABLE 66 nections > Contacts > Cont	tact Regions					
n 432	Contact Region 433	Contact Region 434	Contact Region 435	Contact Region 436				
		Fully Defined						
		Scope						
		Geometry Selection						
	127 Faces	42 Faces	128 Faces	42 Faces				
	98 Faces	13 Faces	99 Faces	13 Faces				
TAINER_VERTICAL2\DIMM_SCRE	EW_RETAINER_VERTIC	AL2						
DIMM_SCREW_RETAINER_VER	DIMM_SLOT\DIMM_SL OT	HIP	DIMM_SLOT\DIMM_SL OT	DIMM1_CHIP\DIMM1_ HIP				
		No						
		Definition Bonded						
		Automatic						
		Program Controlled						
		Program Controlled						
		1.8391e-003 m						
	No							
		Display						
		No						
		Advanced						
		Program Controlled						

		Proç	gram Controlled						
	Program Controlled								
	Program Controlled								
		Proç	gram Controlled						
		Proç	gram Controlled						
		Proç	gram Controlled						
			gram Controlled						
		Geometric M	lodification						
			None						
			None						
	Mc	TABL odel (A4, B4) > Connections >		ons					
Contact Region 443	Contact Region 444	Contact Region 445	Contact Region 446	Contact Region 447	Contac				
		F	Fully Defined						
		Sco	-						
		Geo	ometry Selection						
es	8 Faces	171 Faces	8 Faces	172 Faces	8				
s	8 Faces	43 Faces	8 Faces	43 Faces	3				
		DIMM_SLOT\I	DIMM_SLOT						
MM1_CHIP	DIMM_SLOT\DIMM_SLOT	DIMM1_CHIP\DIMM1_CHIP		DIMM1_CHIP\DIMM1_CHIP	DIMM_SL				
		Defini	No						
		Denn	Bonded						
			Automatic						
		Pro	gram Controlled						
			gram Controlled						
		1.	.8391e-003 m						
		Diag	No						
		Disp	lay						
i									

No

Advanced
Program Controlled
Geometric Modification

None

None

TABLE 68
Model (A4, B4) > Connections > Contacts > Contact Regions

			• a. e. (, , , ., _	,,, - Goiii.	cctions >	oomata z	- Comact i	vog.oo			
Object Name	Contact Region 452	Contact Region 453	Contact Region 454	Contact Region 455	Contact Region 456	Contact Region 457	Contact Region 458	Contact Region 459	Contact Region 460	Contact Region 461	Contact Region 462
State					Fu	Illy Defined					
					Scop	е					
Scoping Method											
Contact				2 Fa	aces					1 Face	
Target				9 Fa	aces					1 Face	
Contact Bodies	Plate\Plate										
l arget Rodies	PEM- Fastener- 1\PEM- Fastener- 1	2∖PEM-	3∖PEM-	4\PEM-	PEM- Fastener- 5\PEM- Fastener- 5	6\PEM-	7\PEM-	8\PEM-	Screw- 1\Screw- 1	Screw- 2\Screw- 2	Screw- 3\Screw- 3
Protected						No					
					Definiti	on					
Туре						Bonded					
Scope Mode		Automatic									
Behavior					Progr	am Contro	lled				

Trim Contact	Program Controlled
Trim Tolerance	1.8391e-003 m
Suppressed	No
	Display
Element Normals	No
	Advanced
Formulation	Program Controlled
Small Sliding	Program Controlled
Detection Method	Program Controlled
Penetration Tolerance	Program Controlled
Elastic Slip Tolerance	Program Controlled
Normal Stiffness	Program Controlled
Update Stiffness	Program Controlled
Pinball Region	Program Controlled
	Geometric Modification
Contact Geometry Correction	None
Target Geometry Correction	None

TABLE 69
Model (A4, B4) > Connections > Contacts > Contact Regions

Object Name	Contact Region 463	Contact Region 464	Contact Region 465	Contact Region 466	Contact Region 467	Contact Region 468	Contact Region 469	Contact Region 470	Contact Region 471	Contact Region 472	Contact Region 473
State					I	Fully Defin	ed				
					Sco	ре					
Scoping Method	GEOMETRY SELECTION										
Contact			1 Face			2 Faces	1 Face		2 Fa	aces	
Target	1 Face					2 Faces	8 Faces	2 Faces			
Contact Bodies		Plate\Plate						PEM- Fastener- 1\PEM- Fastener- 1	PEM- Fastener- 2\PEM- Fastener- 2	PEM- Fastener- 3\PEM- Fastener- 3	4\PEM-
Target Bodies	Screw- 4\Screw- 4	Screw- 5\Screw- 5	Screw- 6\Screw- 6	Screw- 7\Screw- 7	Screw- 8\Screw- 8	Screw- 9\Screw- 9	Nut- 1\Nut-1	Screw- 3\Screw- 3	Screw- 8\Screw- 8	Screw- 7\Screw- 7	Screw- 1\Screw- 1

Protected	No
	Definition
Туре	Bonded
Scope Mode	Automatic
Behavior	Program Controlled
Trim Contact	Program Controlled
Trim Tolerance	1.8391e-003 m
Suppressed	No
	Display
Element Normals	No
	Advanced
Formulation	Program Controlled
Small Sliding	Program Controlled
Detection Method	Program Controlled
Penetration Tolerance	Program Controlled
Elastic Slip Tolerance	Program Controlled
Normal Stiffness	Program Controlled
Update Stiffness	Program Controlled
Pinball Region	Program Controlled
	Geometric Modification
Contact Geometry Correction	None
Target Geometry Correction	None

TABLE 70
Model (A4, B4) > Connections > Contacts > Contact Regions

Model (A4, B4) > Connections > Contacts > Contact Regions								
Object Name	Contact Region 474	Contact Region 475	Contact Region 476	Contact Region 477	Contact Region 478	Contact Region 479		
State		Fully Defined						
	Scope							
Scoping Method	Geometry Selection							
Contact		2 Faces 1 Face						
Target	2 Faces 4 Faces 1 Fa							
Contact Bodies	PEM- Fastener-	PEM- Fastener-	PEM- Fastener-	PEM- Fastener-	Screw-9\Screw-9			

	5\PEM- Fastener-5	6\PEM- Fastener-6	7\PEM- Fastener-7	8\PEM- Fastener-8			
	Screw-	Screw-	Screw-	Screw-	Nut-	Standoff-	
Target Bodies	6\Screw-6	2\Screw-2	5\Screw-5	4\Screw-4	1∖Nut-1	1\Standoff-1	
Protected			No				
			Definition				
Туре			Bonde	d			
Scope Mode			Automa	tic			
Behavior			Program Cor				
Trim Contact			Program Cor	ntrolled			
Trim Tolerance			1.8391e-0	03 m			
Suppressed			No				
			Display				
Element Normals			No				
			Advanced				
Formulation			Program Cor	ntrolled			
Small Sliding			Program Cor	ntrolled			
Detection Method		Program Controlled					
Penetration Tolerance			Program Cor	ntrolled			
Elastic Slip Tolerance		Program Controlled					
Normal Stiffness			Program Cor	ntrolled			
Update Stiffness			Program Cor	ntrolled			
Pinball Region			Program Cor	ntrolled			
		Geome	tric Modificatio				
Contact Geometry Correction		None					
Target Geometry Correction			None				

Mesh

TABLE 71 Model (A4, B4) > Mesh

Widdel (A4, B4) > WeSii						
Object Name	Mesh					
State	Solved					
Display						
Display Style	Use Geometry Setting					
Defaults						
Physics Preference	Mechanical					
Element Order	Program Controlled					
Element Size	Default					
Sizing						

Use Adaptive Sizing	Yes
Resolution	Default (2)
Mesh Defeaturing	Yes
Defeature Size	Default
Transition	Fast
Span Angle Center	Coarse
Initial Size Seed	Assembly
Bounding Box Diagonal	0.73564 m
Average Surface Area	8.0248e-005 m ²
Minimum Edge Length	7.5077e-006 m
Quality	
Check Mesh Quality	Yes, Errors
Error Limits	Aggressive Mechanical
Target Element Quality	Default (5.e-002)
Smoothing	Medium
Mesh Metric	None
Inflation	
Use Automatic Inflation	None
Inflation Option	Smooth Transition
Transition Ratio	0.272
Maximum Layers	5
Growth Rate	1.2
Inflation Algorithm	Pre
View Advanced Options	No
Advanced	
Number of CPUs for Parallel Part Meshing	Program Controlled
Straight Sided Elements	No
Rigid Body Behavior	Dimensionally Reduced
Triangle Surface Mesher	Program Controlled
Topology Checking	Yes
Pinch Tolerance	Please Define
Generate Pinch on Refresh	No
Statistics	
Nodes	555628
Elements	283240

TABLE 72 Model (A4, B4) > Mesh > Mesh Controls

	,	,			
Object Name	Smallest	Small	Medium	Big	Biggest
State	Fully Defined				
		Scope			
Scoping Method		Geom	etry Selection	n	
Geometry	1803 Faces	14984 Faces	628 Faces	72 Faces	21 Faces
		Definition			
Suppressed	No				
Туре		Ele	ment Size		
Element Size	2.5e-003 m	5.e-003 m	1.e-002 m	2.e-002 m	3.e-002 m
Advanced					
Defeature Size			Default		

Influence Volume	No
Behavior	Soft

Named Selections

TABLE 73
Model (A4, B4) > Named Selections > Named Selections

INIOUGI (AT	, D4) > Nameu	Selection	3 / Itali	ieu seie	CHOHS		
Object Name	DIMM1 DIMM	2 DIMM3	DIMM4	DIMM5	DIMM6	DIMM7	DIMM8
State	Fully Defined						
		Scope					
Scoping Method		G	eometry	Selectio	n		
Geometry			1 B	ody			
Definition							
Send to Solver			Υe	es			
Protected		Р	rogram (Controlle	d		
Visible			Υe	es			
Program Controlled Inflation			Exc	lude			
Statistics							
Туре			Mar	nual			
Total Selection			1 B	ody			
Suppressed			()			
Used by Mesh Worksheet			N	0			

Modal (A5)

TABLE 74 Model (A4, B4) > Analysis

INIOGEI (A4, D4) >	Alialysis
Object Name	Modal (A5)
State	Solved
Definition	n
Physics Type	Structural
Analysis Type	Modal
Solver Target	Mechanical APDL
Options	
Environment Temperature	22. °C
Generate Input Only	No

TABLE 75

Model (A4, B4) > Modal (A5) > Initial Condition

Object Name	Pre-Stress (None)	
State	Fully Defined	
Definition		
Pre-Stress Environment	None Available	

TABLE 76

Model (A4, B4) > Modal (A5) > Analysis Settings

Name	Analysis Settings
State	Fully Defined

	Options
des to Find	
Search Range	
emand ansion	
u	Solver Controls
amped	
r Type	
	Rotordynamics Controls
Effect	
mpbell iagram	Off
ag	Advanced
ct Split (DMP)	O#
	Output Controls
Stress	
Surface Stress	
Stress	
Strain	
ct Data	
Forces	
ne and Energy	No
Angles	
lculate	Vos
Modal Results	Program Controlled
General	No
ult File ession	Program Controlled
000.0.	Analysis Data Management
er Files rectory	\\iowa uiowa edu\shared\engineering\home\makaufman\windowsdata\Deskton\ASSEMBLIES_FINAL\screw_project_files\dn0\SYS\
Future nalysis	MSLID Analyses
Scratch er Files	
rectory IAPDL db	Voc
Contact	Program Controlled
mmary	
Delete needed Files	Yes

r Units	Active System
er Unit	mke
System	mks

TABLE 77 Model (A4, B4) > Modal (A5) > Loads

Model (AT, BT) >	modul (AU) > Louds
Object Name	Fixed Support
State	Fully Defined
S	cope
Scoping Method	Geometry Selection
Geometry	2 Faces
Def	inition
Туре	Fixed Support
Suppressed	No

Solution (A6)

TABLE 78 Model (A4, B4) > Modal (A5) > Solution

73 <i>) ></i> 00141101		
Solution (A6)		
Solved		
inement		
1.		
2.		
Information		
Done		
5 m 38 s		
8.5703 GB		
658.63 MB		
ing		
No		

The following bar chart indicates the frequency at each calculated mode.

FIGURE 1 Model (A4, B4) > Modal (A5) > Solution (A6)

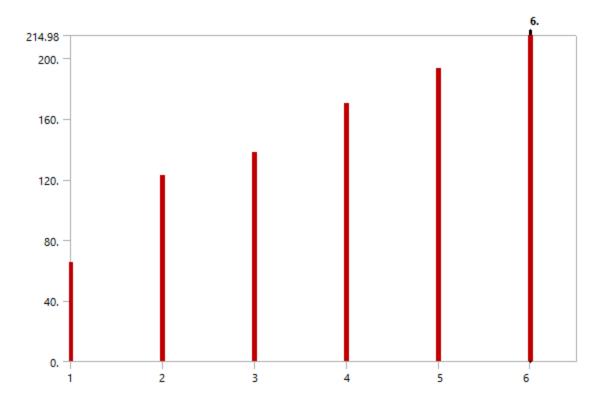


TABLE 79 Model (A4, B4) > Modal (A5) > Solution (A6)

Mode	Frequency [Hz]
1.	65.543
2.	122.51
3.	137.66
4.	169.86
5.	193.39
6.	214.98

TABLE 80 Model (A4, B4) > Modal (A5) > Solution (A6) > Solution Information

· ·, = ·, - · · · · · · · · · · · · · · · · ·	(/ (o /	
Object Name	Solution Information	
State	Solved	
Solution Inform	ation	
Solution Output	Solver Output	
Newton-Raphson Residuals	0	
Identify Element Violations	0	
Update Interval	2.5 s	
Display Points	All	
FE Connection Visibility		
Activate Visibility	Yes	
Display	All FE Connectors	
Draw Connections Attached To	All Nodes	
Line Color	Connection Type	

Visible on Results	No
Line Thickness	Single
Display Type	Lines

TABLE 81
Model (A4, B4) > Modal (A5) > Solution (A6) > Results

Model (A4, B4) > Model (A5) > Solution (A6) > Results				
Object Name	Total Deformation	Total Deformation 2	Total Deformation 3	Total Deformation 4
State	Solved			
	Scope			
Scoping Method		Geometry Selection		
Geometry		All E	Bodies	
		Definition		
Туре		Total De	formation	
Mode	1.	2.	3.	4.
Identifier				
Suppressed	No			
	Results			
Minimum	um 0. m			
Maximum	0.98029 m	1.173 m	1.2895 m	1.298 m
Average	0.40991 m	0.37876 m	0.39904 m	0.38923 m
Minimum Occurs On	Left-Mounting-Ear\Left-Mounting-Ear			
Maximum Occurs On	Board\Board Plate\Plate			
Information				
Frequency	65.543 Hz	122.51 Hz	137.66 Hz	169.86 Hz

TABLE 82 Model (A4, B4) > Modal (A5) > Solution (A6) > Total Deformation

Mode	Frequency [Hz]
1.	65.543
2.	122.51
3.	137.66
4.	169.86
5.	193.39
6.	214.98

FIGURE 2
Model (A4, B4) > Modal (A5) > Solution (A6) > Total Deformation > 1stModeShape

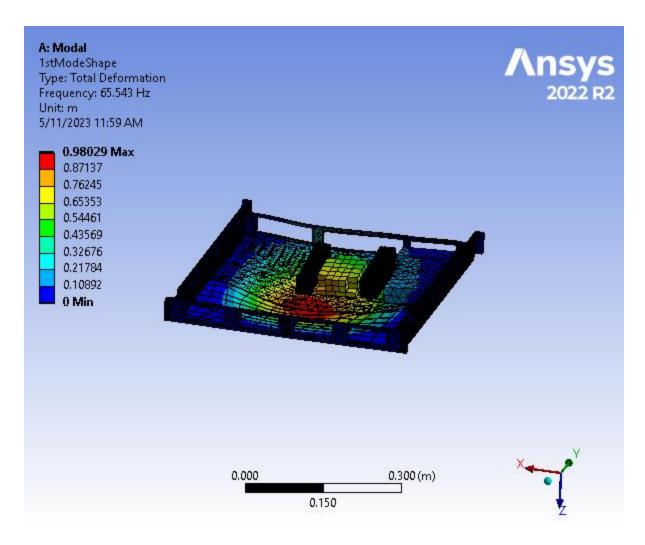


TABLE 83
Model (A4, B4) > Modal (A5) > Solution (A6) > Total Deformation 2

Mode	Frequency [Hz]
1.	65.543
2.	122.51
3.	137.66
4.	169.86
5.	193.39
6.	214.98

TABLE 84
Model (A4, B4) > Modal (A5) > Solution (A6) > Total Deformation 3

Mode	Frequency [Hz]
1.	65.543
2.	122.51
3.	137.66
4.	169.86
5.	193.39
6.	214.98

TABLE 85
Model (A4, B4) > Modal (A5) > Solution (A6) > Total Deformation 4

Mode	Frequency [Hz]
1.	65.543
2.	122.51
3.	137.66
4.	169.86
5.	193.39
6.	214.98

Harmonic Response (B5)

TABLE 86 Model (A4, B4) > Analysis

iviouei (A+,	/ Allalysis	
Object Name	Harmonic Response (B5)	
State	Solved	
Definition		
Physics Type	Structural	
Analysis Type	Harmonic Response	
Solver Target	Mechanical APDL	
Options		
Generate Input Only	No	

TABLE 87
Model (A4, B4) > Harmonic Response (B5) > Initial Condition

	Object Name	Modal (Modal)
	State	Fully Defined
Definition		
	Modal Environment	Modal
	Pre-Stress Environment	None

TABLE 88

Model (A4, B4) > Harmonic Response (B5) > Analysis Settings

ject Name	Analysis Settings		
State	Fully Defined		
	Step Controls		
tiple Steps	No		
	Options		
Frequency Spacing			
Range Minimum	49. Hz		
Range Maximum			
Solution Intervals			
er Defined equencies			

Solution Method	Mode Superposition
Include Residual Vector	No
Cluster Results	No
n Demand Expansion	No
re Results At All equencies	Yes
	Rotordynamics Controls
iolis Effect	Off
0.1	Output Controls
Stress	Yes
Surface Stress	No
ack Stress	No No
Strain	Yes
ntact Data	Yes
dal Forces olume and	No
Energy	Yes
ler Angles	Yes
Calculate Reactions	Yes
General cellaneous	No
Expand sults From	Program Controlled
Expansion	Modal Solution
Result File mpression	Program Controlled
Присселог	Damping Controls
. Damping Ratio From Modal	No No
Damping Define By	Damping Ratio
Damping Ratio	0.1
Stiffness Coefficient Define By	Direct Input
Stiffness Coefficient	0.
Mass Coefficient	0.
	Analysis Data Management

olver Files Directory	\\iowa.uiowa.edu\shared\engineering\home\makaufman\windowsdata\Desktop\ASSEMBLIES_FINAL\screw_project_files\dp0\S 1\MECH\
Future Analysis	None
Scratch olver Files Directory	
ve MAPDL db	No
Contact Summary	Program Controlled
Delete Unneeded Files	Yes
olver Units	Active System
Solver Unit System	mke

TABLE 89 Model (A4, B4) > Harmonic Response (B5) > Accelerations

, , ,				
Object Name	Acceleration			
State	Suppressed			
Scope				
Boundary Condition Fixed Support				
Definition				
Base Excitation	Yes			
Absolute Result	Yes			
Define By	Magnitude - Phase			
Magnitude	45.4 m/s ²			
Phase Angle	0. °			
Direction	X Axis			
Suppressed	Yes			

TABLE 90 Model (A4, B4) > Harmonic Response (B5) > Loads

aci (A4, B4) > Harmonio Response (B0) > E0a			
Object Name	Force	Force 2	
State	Fully Defined		
Scope			
Scoping Method	Geometry Selection		
Geometry	1 Face		
Definition			
Туре	Force		
Define By	Components		
Applied By	Direct		
Coordinate System	Global Coordinate System		
X Component	0. N		
Y Component	0. N		
Z Component	-188. N	188. N	
X Phase Angle	0.°		
Y Phase Angle	0. °		

Z Phase Angle	0. °	180.°
Suppressed	No	

Solution (B6)

TABLE 91
Model (A4, B4) > Harmonic Response (B5) > Solution

, ,			
Object Name	Solution (B6)		
State	Solved		
Information			
Status	Done		
MAPDL Elapsed Time	12 m 3 s		
MAPDL Memory Used	6.4824 GB		
MAPDL Result File Size	15.734 GB		
Post Processing			
Beam Section Results	No		

FIGURE 3
Model (A4, B4) > Harmonic Response (B5) > Solution (B6)

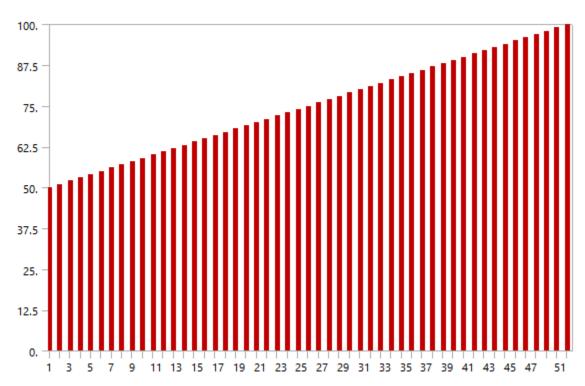


TABLE 92
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Solution Information

Object Name Solution Informati			
State Solved			
Solution Information			
Solution Output Solver Output			

Newton-Raphson Residuals	0		
Identify Element Violations	0		
Update Interval	2.5 s		
Display Points	All		
FE Connection Visibility			
Activate Visibility	Yes		
Display	All FE Connectors		
Draw Connections Attached To	All Nodes		
Line Color	Connection Type		
Visible on Results	No		
Line Thickness	Single		
Display Type	Lines		

TABLE 93 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

ionFrequencyRespons AccelerationFrequencyRespons AccelerationFrequencyRespons DeformationFrequencyRespons Deformat

eDIMM1y

		Solved		
		Scope		
		Geometry Selection		
		1 Body		
		Use Av	verage	
		Definition		
	Directional Acceleration			Directional
X Axis	Y Axis	Z Axis	X Axis	Y
		Global Coordinate System		
		No		
		Options		
		Use Parent		
		49. Hz		
		100. Hz		
		Bode		
		Log Y		

Results

17.501 m/s²	31.873 m/s²	322.4 m/s²	1.0072e-004 m	1.8768
67. Hz		66. Hz		
71.293 °	85.447 °	-96.14 °	-100.2 °	-85
5.613 m/s ²	2.5301 m/s ²	-34.48 m/s²	-1.783e-005 m	1.3614
16.576 m/s²	31.773 m/s ²	-320.55 m/s²	-9.9131e-005 m	-1.8719

FIGURE 4
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM1x

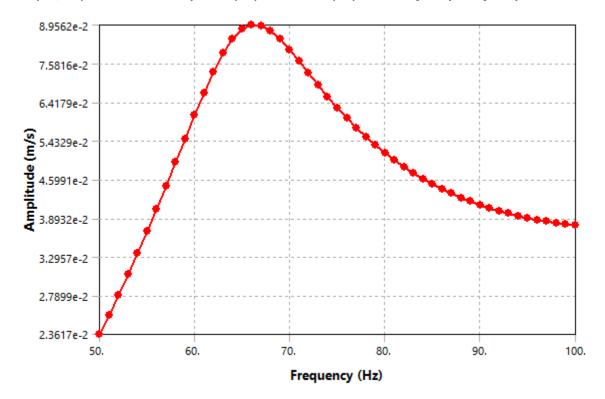


FIGURE 5
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM1y

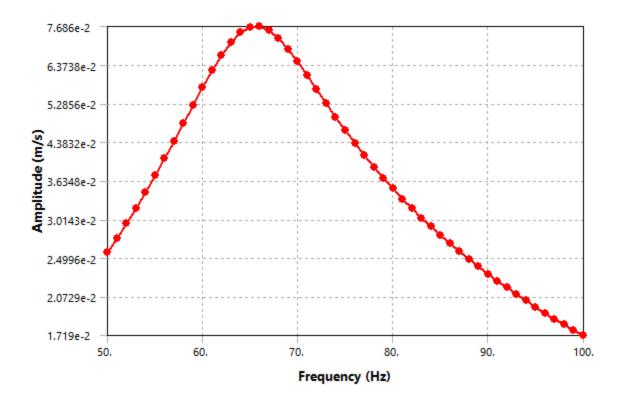


FIGURE 6
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM1z

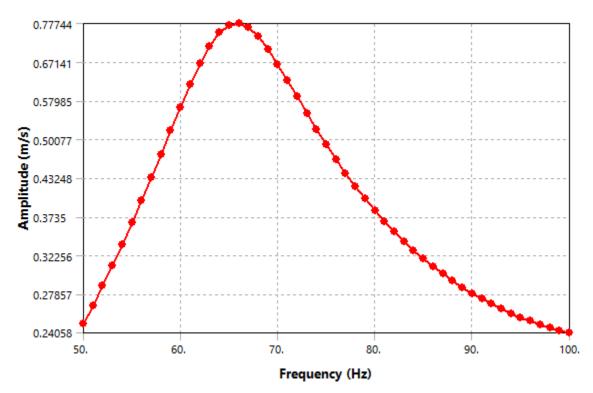


FIGURE 7
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM1x

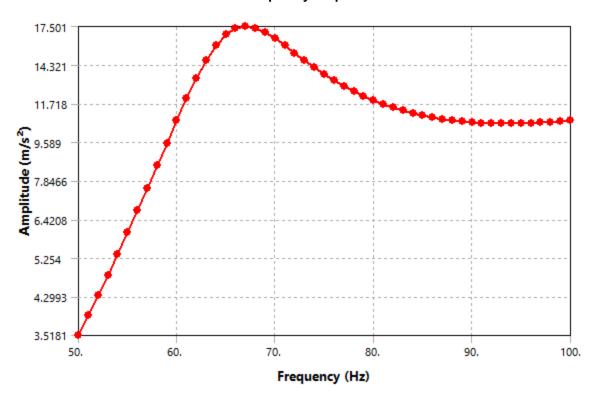


FIGURE 8
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM1y

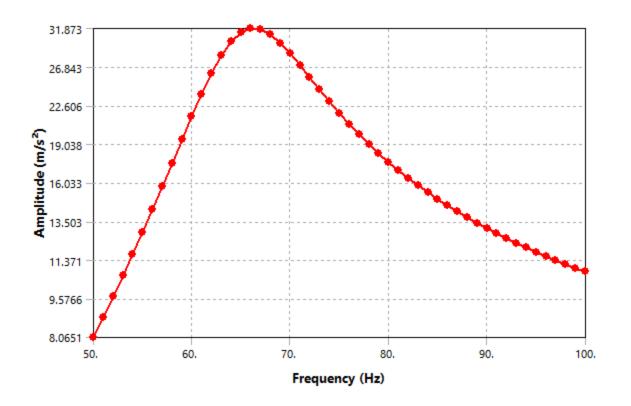


FIGURE 9
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) >
AccelerationFrequencyResponseDIMM1z

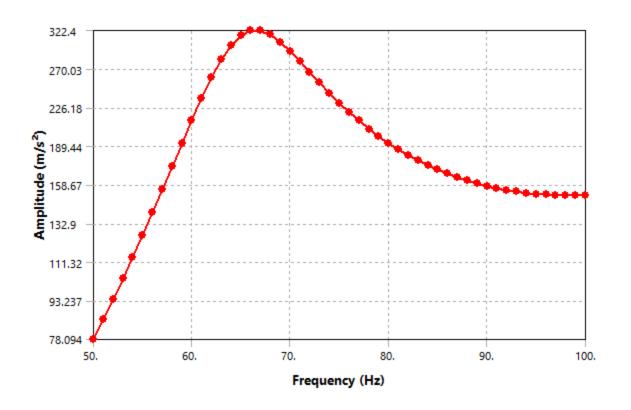


FIGURE 10 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM1x

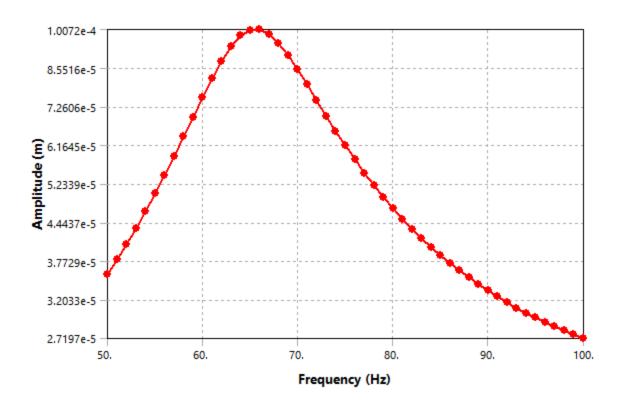


FIGURE 11 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM1y

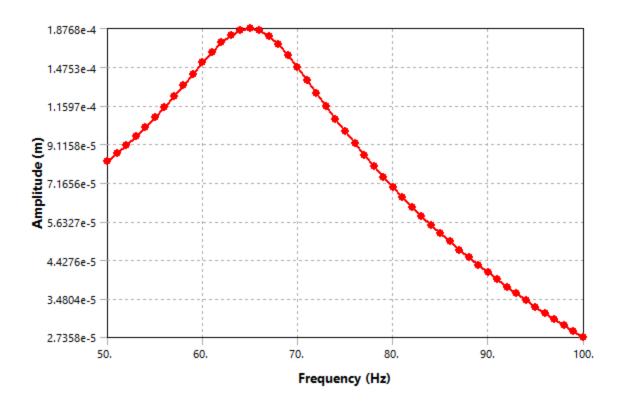


FIGURE 12 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM1z

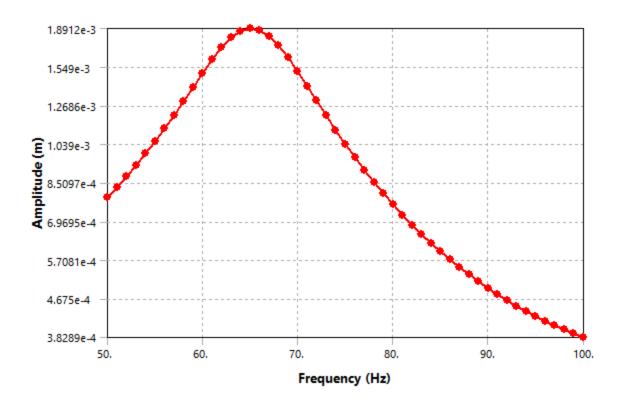


FIGURE 13
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM2x

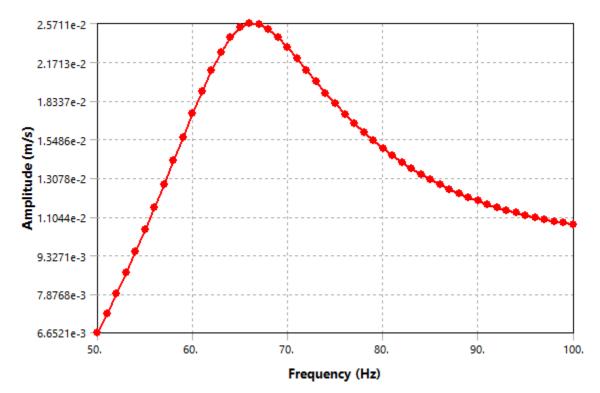


FIGURE 14
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM2y

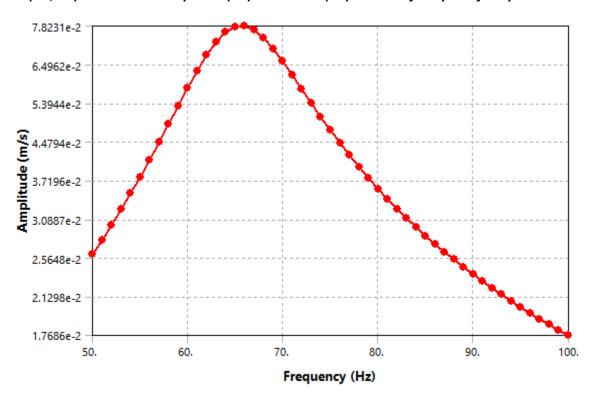


TABLE 94
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

celerationFrequencyRespon	DeformationFrequencyRespon	DeformationFrequencyRespon	DeformationFrequencyRespon	VelocityFre		
seDIMM2z	seDIMM2x	seDIMM2y	seDIMM2z	e		
	Solved					
		Scope				
	Geometry Selection					
		1 Body				

Use Average

Definition				
		Directional Deformation		
Z Axis	X Axis	Y Axis	Z Axis	

Global Coordinate System

No

Options

Use Parent
49. Hz
100. Hz
Bode
Log Y

		Results		
327.82 m/s²	6.2e-005 m	1.9099e-004 m	1.9226e-003 m	1.060
66. Hz		65.	Hz	
-96.231 °	-100.86 °	-85.92 °	92.581 °	-1
-35.579 m/s ²	-1.168e-005 m	1.3589e-005 m	-8.657e-005 m	1.039
-325.88 m/s ²	-6.089e-005 m	-1.905e-004 m	1.9206e-003 m	-2.09

FIGURE 15
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM2z

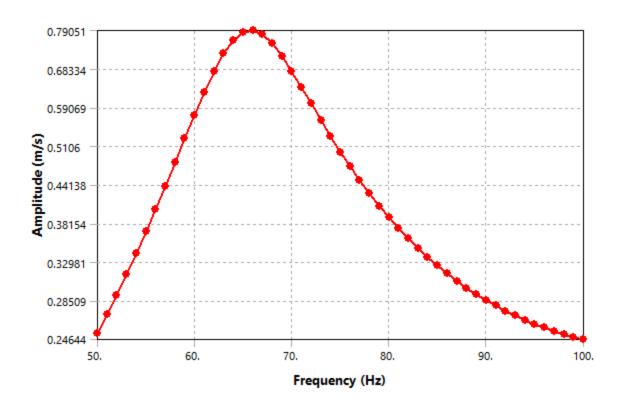


FIGURE 16
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM2x

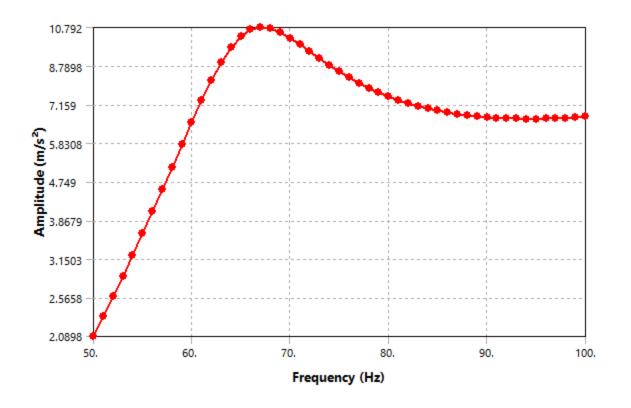


FIGURE 17
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM2y

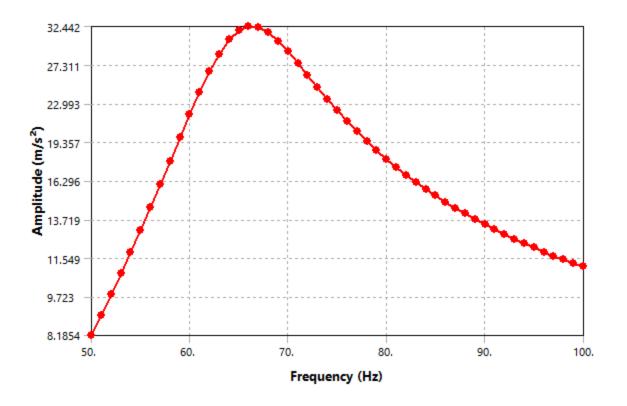


FIGURE 18
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM2z

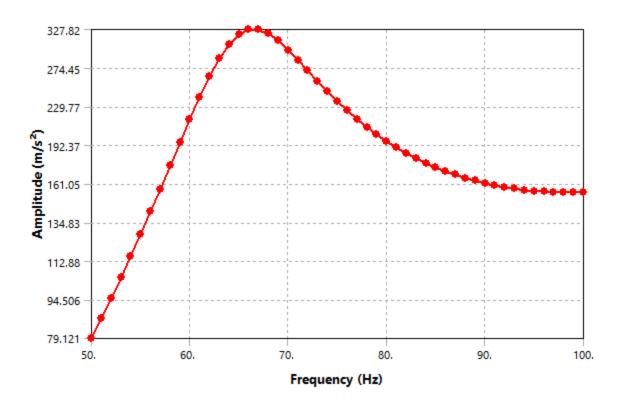


FIGURE 19
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) >
DeformationFrequencyResponseDIMM2x

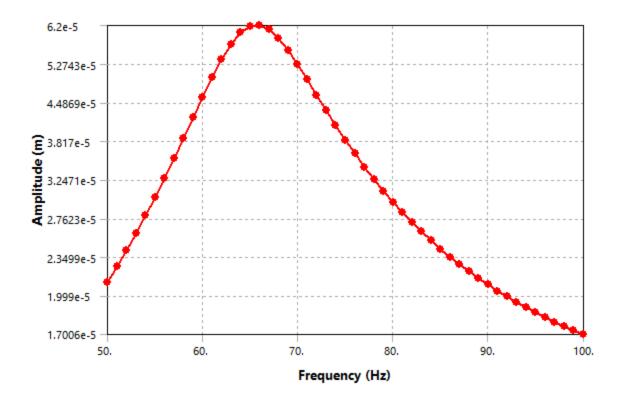


FIGURE 20 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM2y

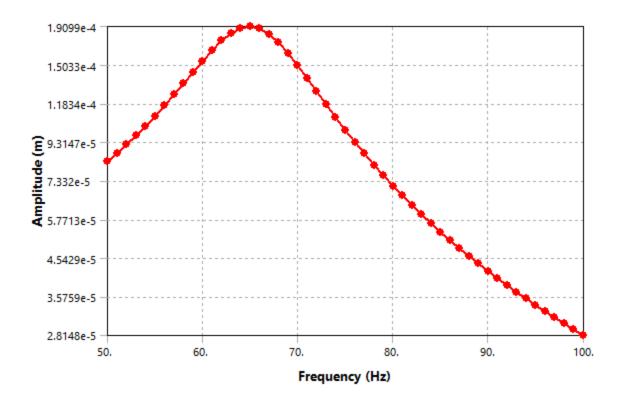


FIGURE 21 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM2z

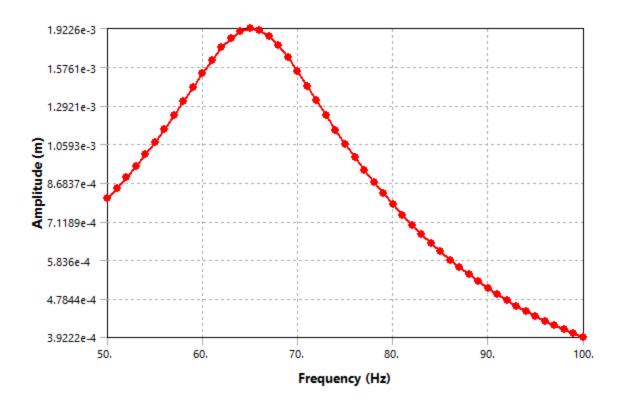


FIGURE 22
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM3x

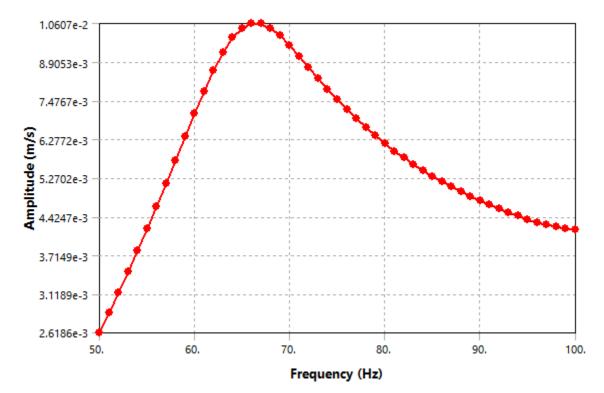


FIGURE 23
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM3y

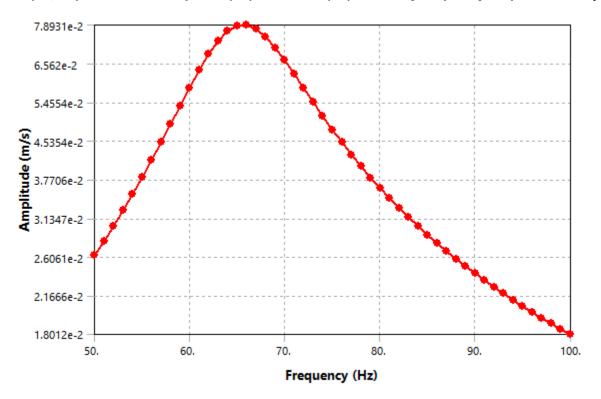


FIGURE 24
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM3z

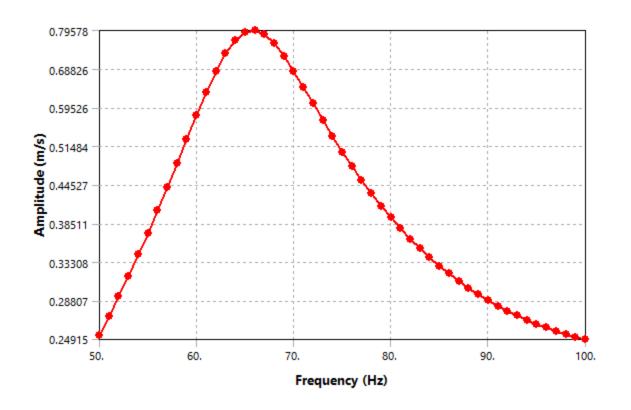


FIGURE 25
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM3x

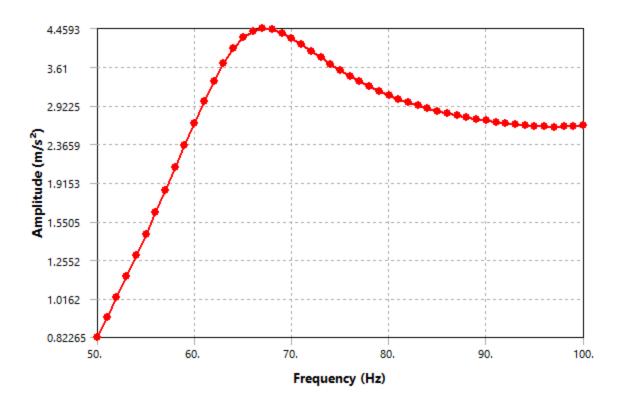


TABLE 95
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

eformationFrequencyRespon	DeformationFrequencyRespon	VelocityFrequencyRespons	VelocityFrequencyRespons	VelocityFrequen	
seDIMM3y	seDIMM3z	eDIMM4x	eDIMM4y	eDIMM	
	Solved				
	Scope				
	Geometry Selection				
1 Body					

Use Average

Definition				
Directional Deformation			Directional Velocity	
Y Axis	Z Axis	X Axis	Y Axis	Z Axis

Global Coordinate System

No

Options

Use Parent

100. Hz

Bode

Log Y

	Results				
1.9266e-004 m	1.9351e-003 m	4.0792e-003 m/s	7.9302e-002 m/s	0.79363	
65. Hz		66. Hz			
-85.992 °	92.521 °	167.98 °	-4.7586 °	173.69	
1.3466e-005 m	-8.5114e-005 m	-3.9898e-003 m/s	7.9029e-002 m/s	-0.78882	
-1.9219e-004 m	1.9332e-003 m	8.4963e-004 m/s	-6.5787e-003 m/s	8.7251e-00	

FIGURE 26
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM3y

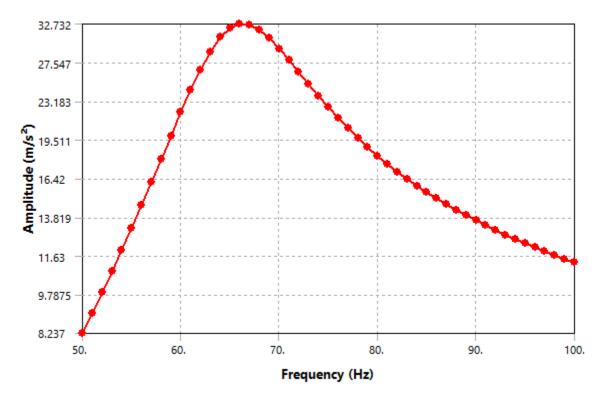


FIGURE 27
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM3z

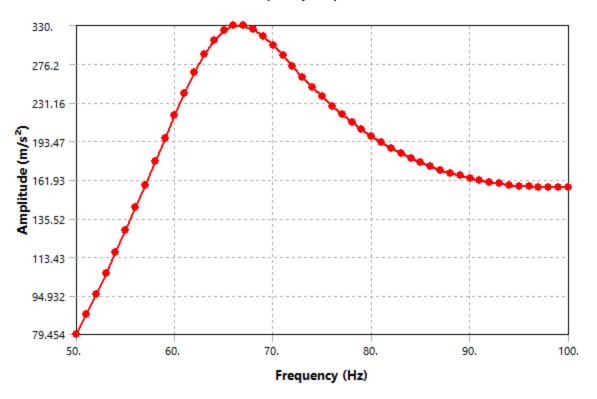


FIGURE 28 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM3x

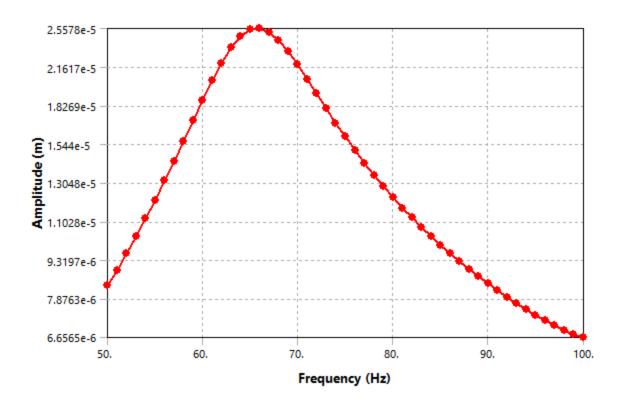


FIGURE 29
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM3y

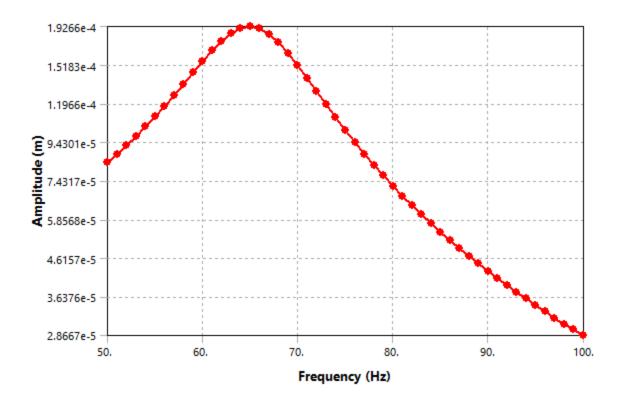


FIGURE 30 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM3z

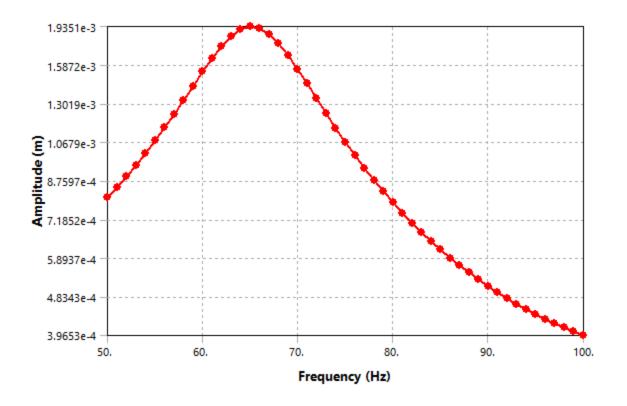


FIGURE 31
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM4x

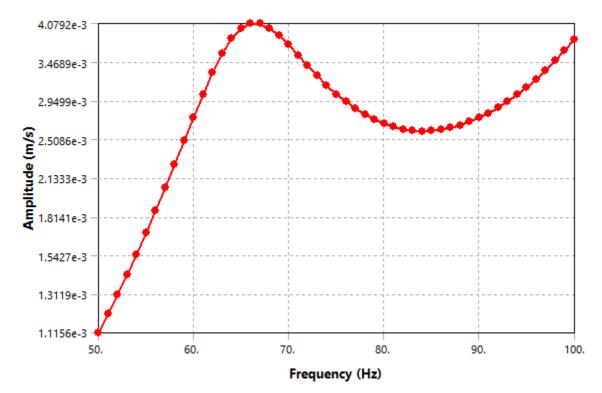


FIGURE 32
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM4y

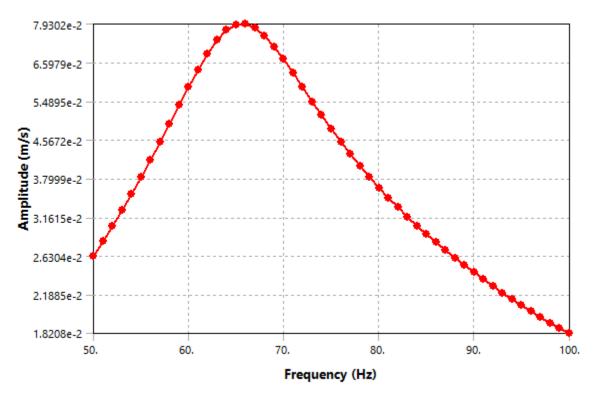


FIGURE 33
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM4z

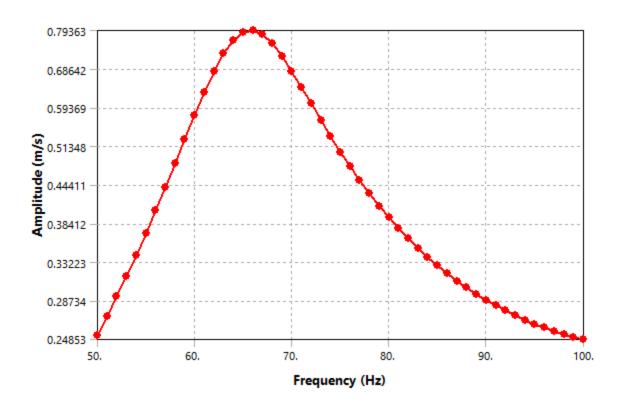


FIGURE 34
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM4x

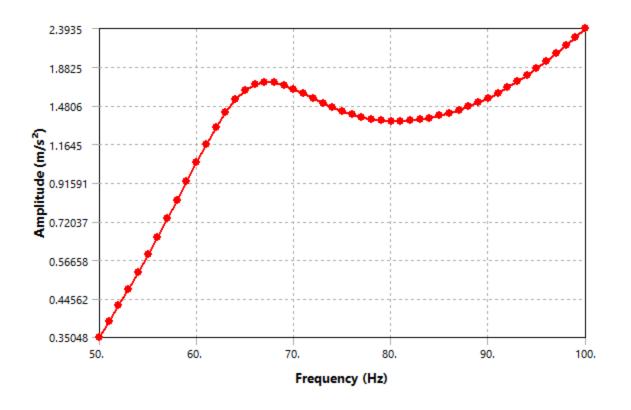


FIGURE 35
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM4y

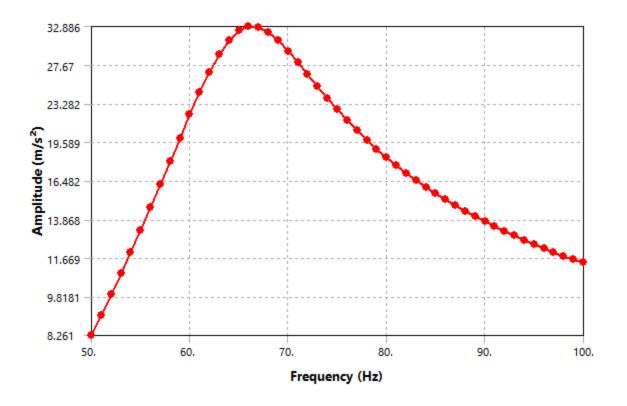


FIGURE 36
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM4z

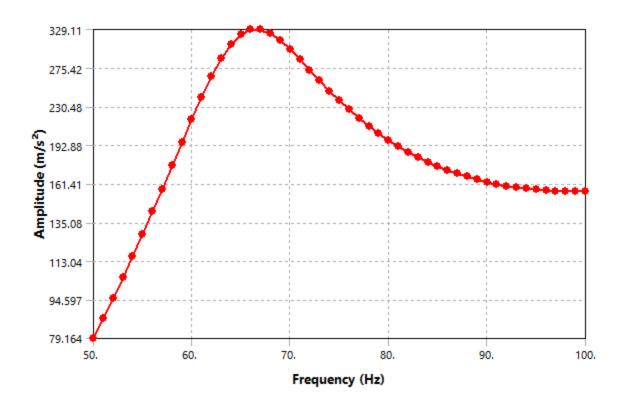


TABLE 96
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

<i>lelocityFrequencyRespons</i>	VelocityFrequencyRespons	VelocityFrequencyRespons	AccelerationFrequencyRespon	AccelerationFreque		
eDIMM5x	eDIMM5y	eDIMM5z	seDIMM5x	seDIMM5		
Solved						
		Scope				
		Geometry Selection				
		1 Body				

Use Average

Definition				
	Directional Velocity			Directional Acce
X Axis	Y Axis	Z Axis	X Axis	Y Axis

Global Coordinate System

No

Options

Use Parent

100. Hz

Bode

Log Y

	Results					
3.2357e-002 m/s	8.1269e-002 m/s	0.5222 m/s	13.61 m/s²	33.701 m/		
	66. Hz		67. Hz			
168.28 °	-4.7289 °	175.3 °	-110.32 °	85.271 °		
-3.1683e-002 m/s	8.0992e-002 m/s	-0.52044 m/s	-4.7256 m/s²	2.7784 m/		
6.5727e-003 m/s	-6.6999e-003 m/s	4.2822e-002 m/s	-12.763 m/s²	33.587 m/		

FIGURE 37
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM4x

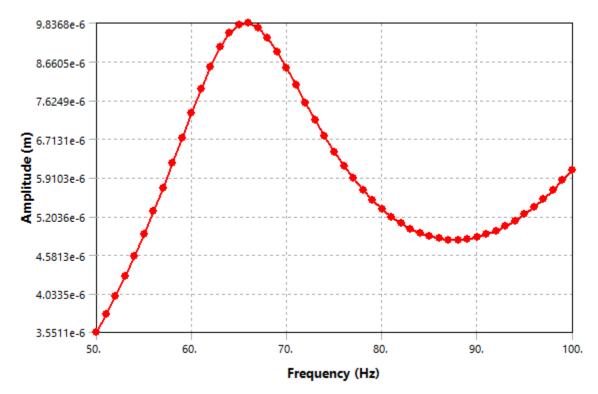


FIGURE 38
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM4y

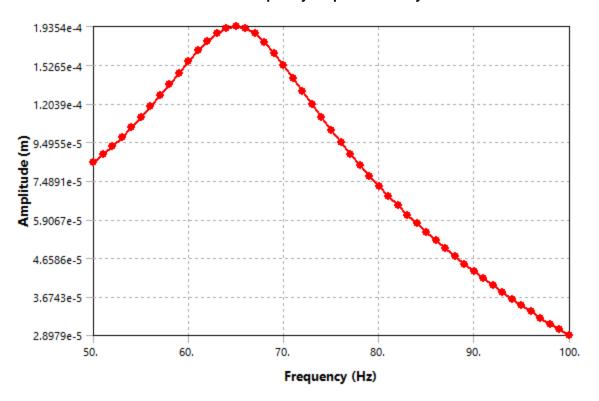


FIGURE 39
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) >
DeformationFrequencyResponseDIMM4z

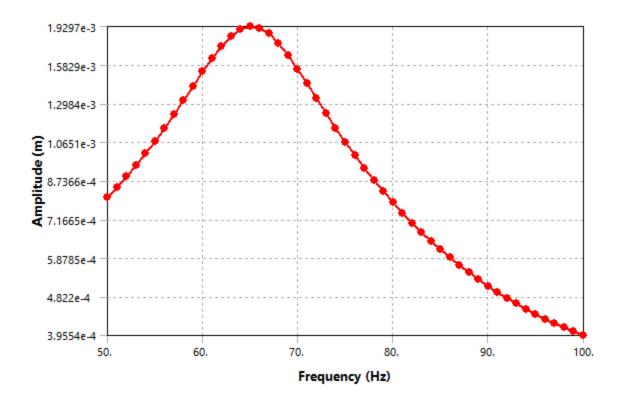


FIGURE 40
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM5x

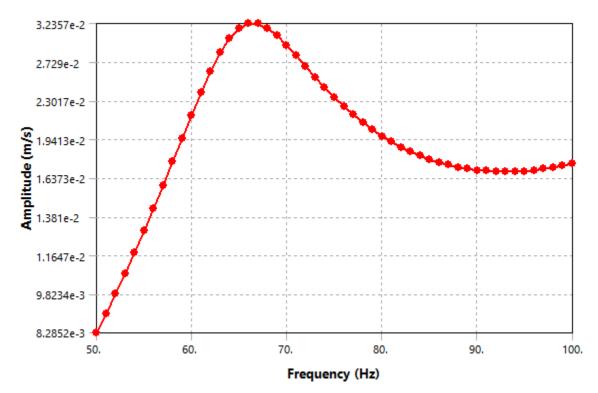


FIGURE 41
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM5y

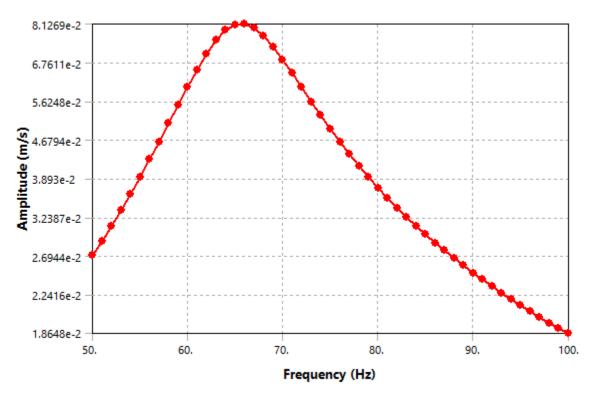


FIGURE 42
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM5z

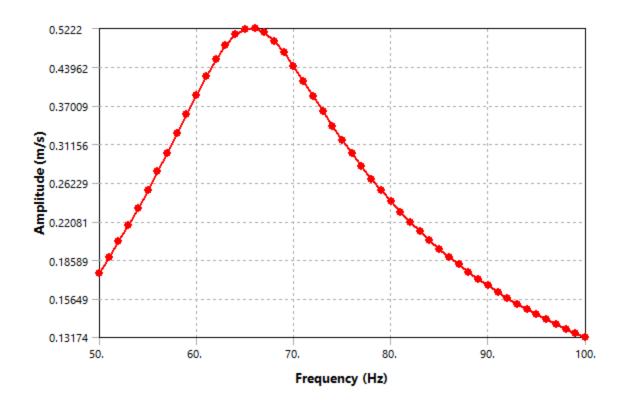


FIGURE 43
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM5x

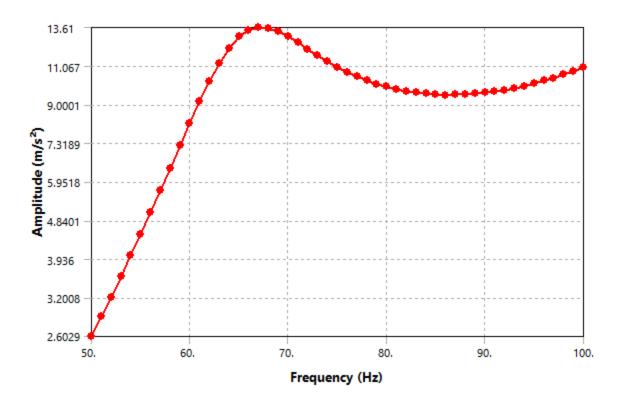


FIGURE 44
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM5y

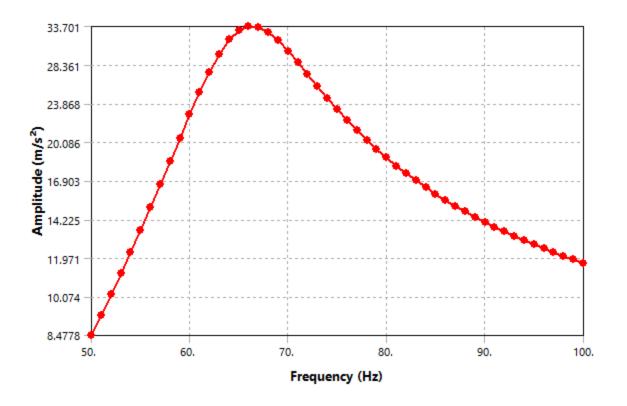


FIGURE 45
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM5z

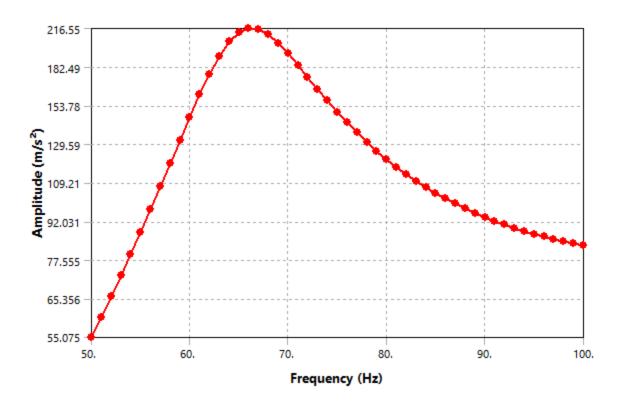


FIGURE 46 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM5x

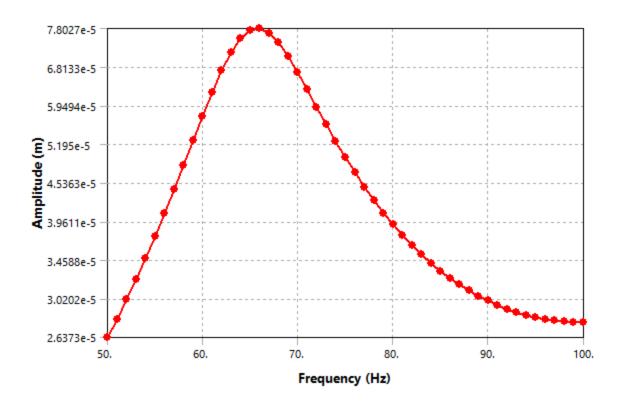


FIGURE 47
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM5y

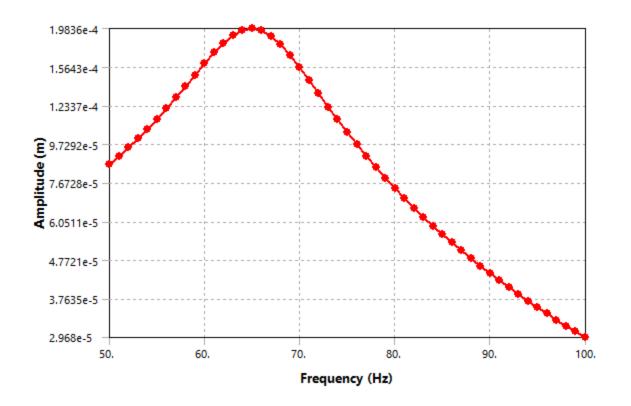


TABLE 97
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

yFrequencyRespons	AccelerationFrequencyRespon	AccelerationFrequencyRespon	AccelerationFrequencyRespon	DeformationFreq		
eDIMM6z	seDIMM6x	seDIMM6y	seDIMM6z	seDIMI		
Solved						
		Scope				
	Geometry Selection					
		1 Body				

Use Average

Definition				
Directional Acceleration				
Z Axis	X Axis	Y Axis	Z Axis	X Ax

Global Coordinate System

No

Options

Use Parent

49. Hz

100. Hz

Bode

Log Y

Results					
0.50341 m/s	13.09 m/s²	33.689 m/s²	208.76 m/s²	7.5065e-0	
	67. Hz	66. Hz			
175.49°	-110.24 °	85.309°	-94.507 °	78.36	
-0.50186 m/s	-4.5285 m/s ²	2.755 m/s²	-16.405 m/s²	1.5144e-0	
.9558e-002 m/s	-12.282 m/s²	33.576 m/s²	-208.11 m/s²	7.3522e-0	

FIGURE 48 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM5z

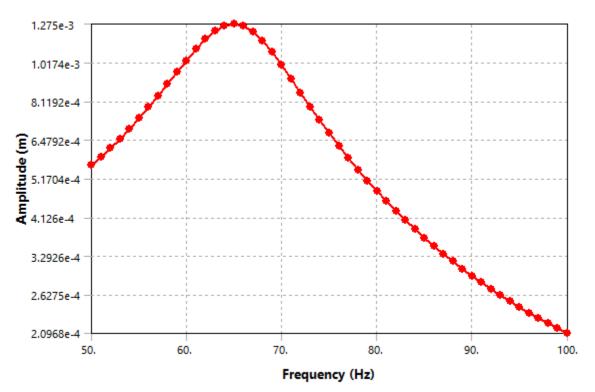


FIGURE 49
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM6x

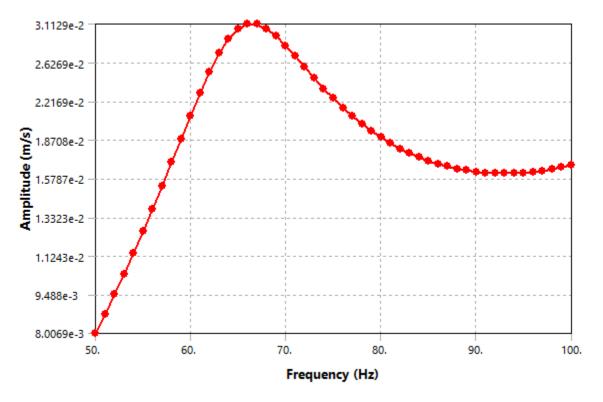


FIGURE 50
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM6y

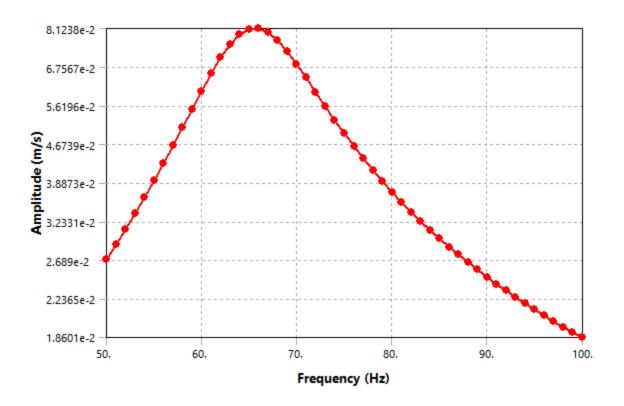


FIGURE 51
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM6z

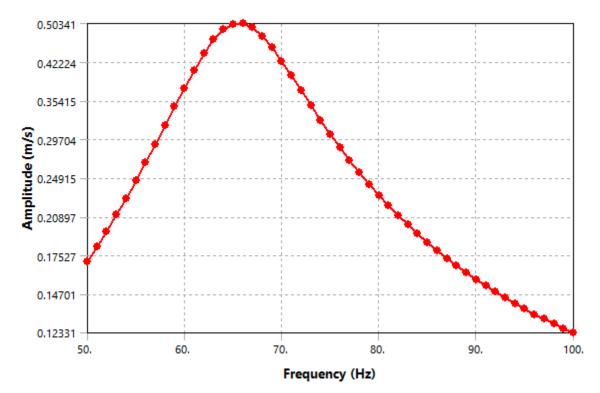


FIGURE 52
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM6x

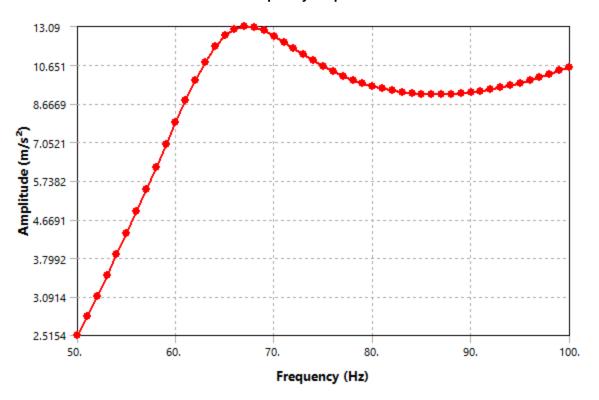


FIGURE 53
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM6y

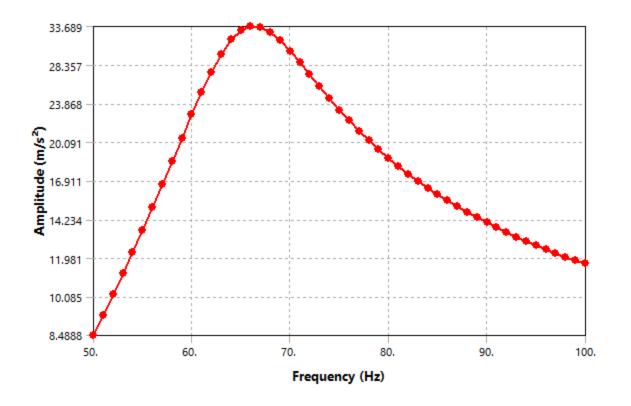


FIGURE 54
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM6z

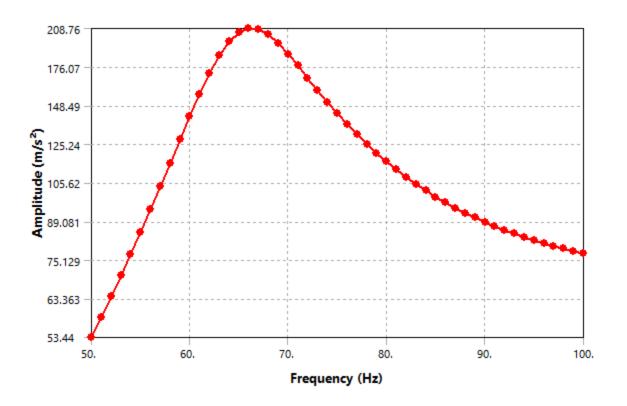


FIGURE 55
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM6x

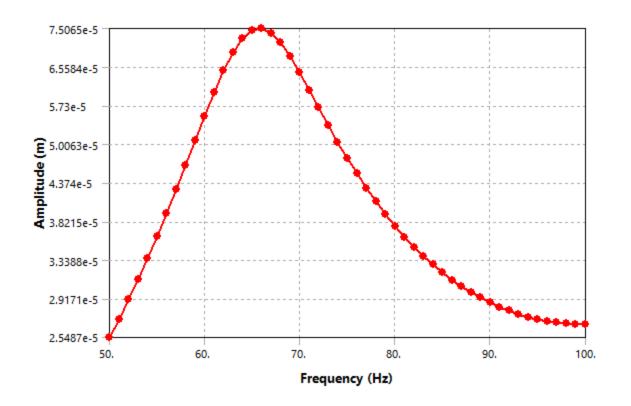


FIGURE 56
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM6y

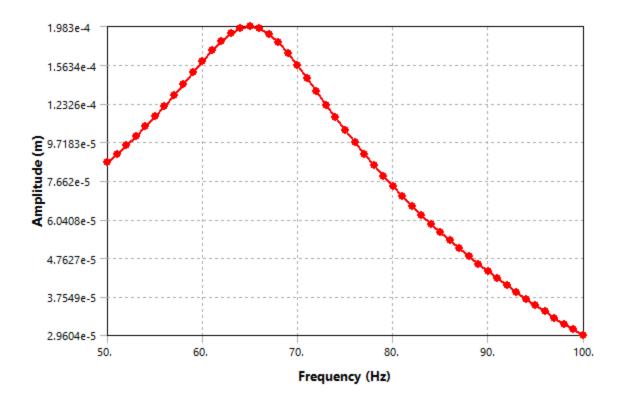


FIGURE 57
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM6z

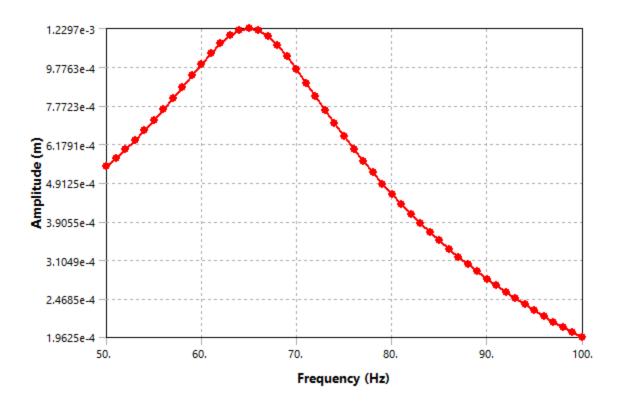


FIGURE 58
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM7x

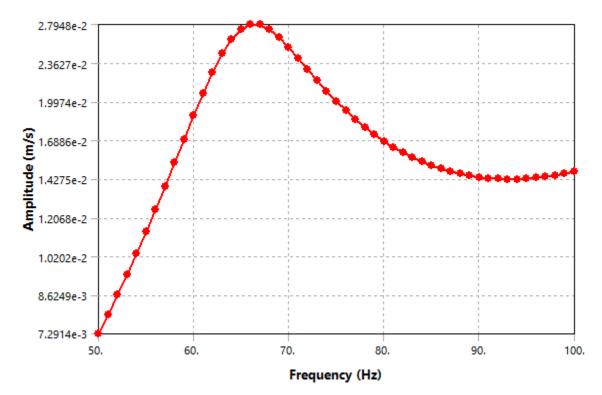


TABLE 98 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts erationFrequencyRespons | AccelerationFrequencyRespons | DeformationFrequencyRespons | DeformationFrequ

eDIMM7y	eDIMM7z	eDIMM7x	eDIMM7y	Boromation			
		Solved					
		Scope					
		Geometry Selection					
	1 Body						
		Use Average					
		Definition					
rectional Acceleration			Directional Deformation				
Y Axis	Z Axis	X Axis	Y Axis				
		Global Coordinate System					
		No					
		Options					
		Use Parent					
		49. Hz					
		100. Hz					
		Bode					
Log Y							
		Results					
33.711 m/s²	201.46 m/s²	6.7394e-005 m	1.9844e-004 m	1.1			
	66. Hz		65	. Hz			
85.331 °	-94.314 °	78.662 °	-85.949 °				
2.744 m/s²	-15.153 m/s²	1.325e-005 m	1.402e-005 m	-9.1			
				+			

FIGURE 59
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM7y

6.6079e-005 m

-1.9795e-004 m

1.18

-200.89 m/s²

33.599 m/s²

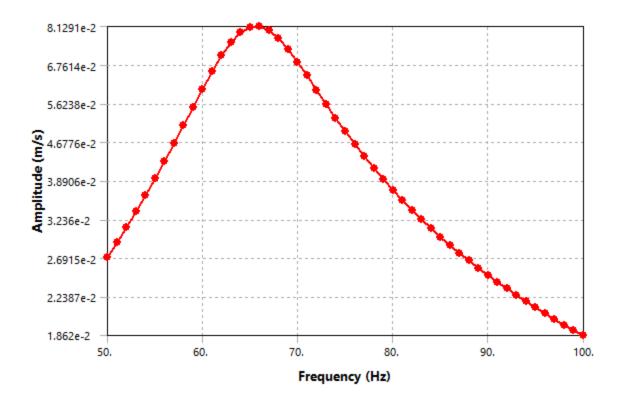


FIGURE 60
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM7z

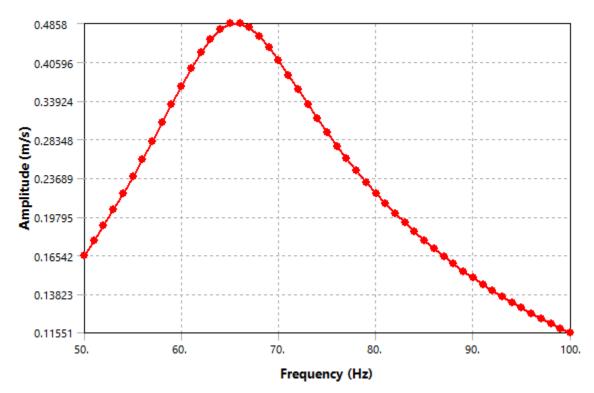


FIGURE 61
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM7x

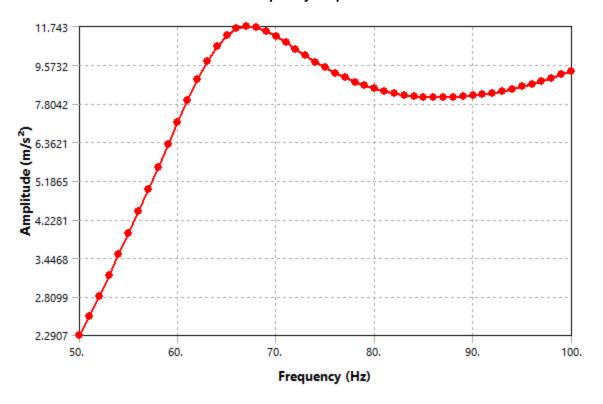


FIGURE 62
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM7y

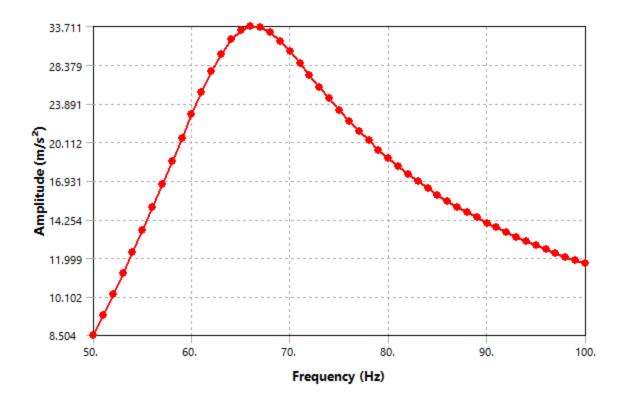


FIGURE 63
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM7z

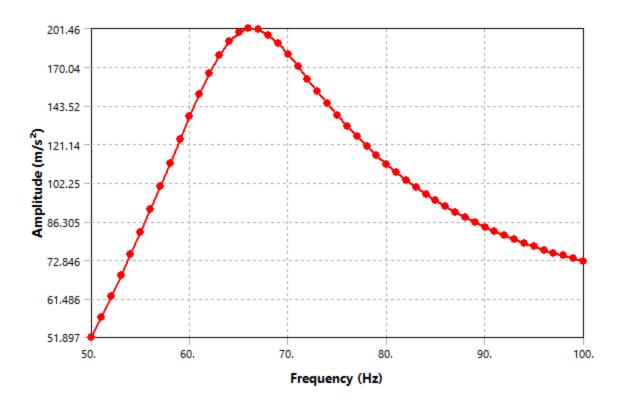


FIGURE 64
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM7x

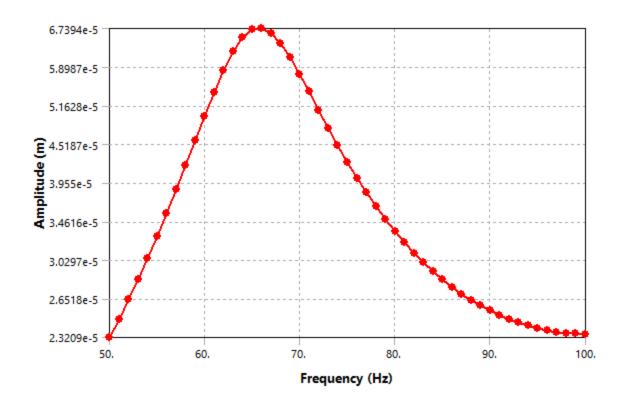


FIGURE 65
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM7y

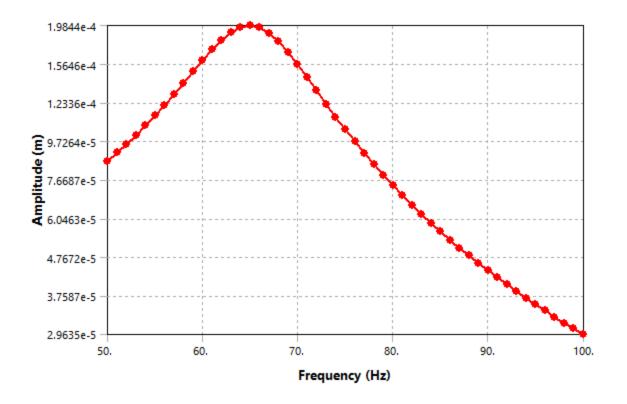


FIGURE 66 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM7z

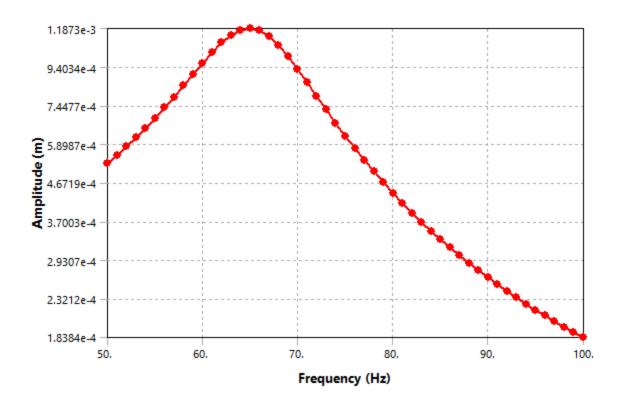


FIGURE 67
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM8x

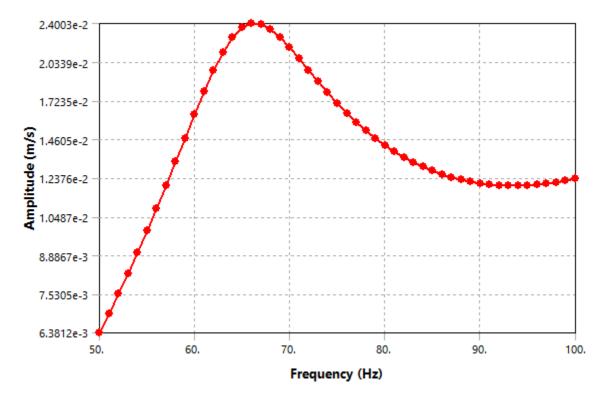


FIGURE 68
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM8y

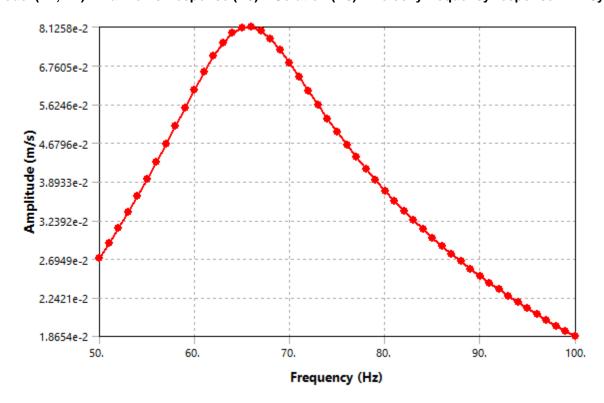


FIGURE 69
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > VelocityFrequencyResponseDIMM8z

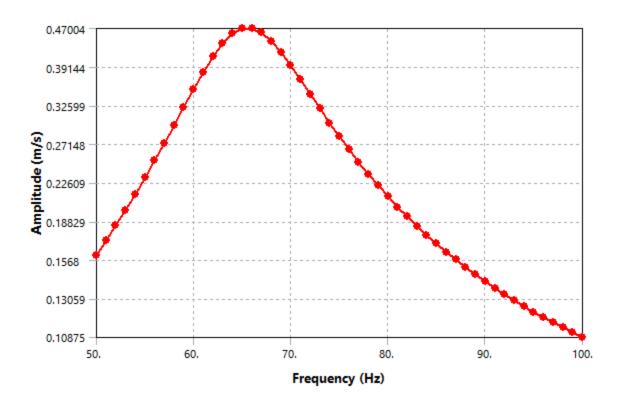


TABLE 99
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > Result Charts

tionFrequencyResponseDIMM8y AccelerationFrequencyResponseDIMM8z DeformationFrequencyResponseDIMM8x DeformationFreque

	Solv	ved	
	Scope		
	Geometry	Selection	
	1 Bo	ody	
	Use Av	verage	
	Definition		
Directional Acceleration			Directiona
Y Axis	Z Axis	X Axis	Y
	Global Coord	inate System	
	N	0	
	Options		
	Use P	arent	
	49.	Hz	
	100.	Hz	

Bode

Log Y

Results				
33.697 m/s ²	194.92 m/s²	5.7881e-005 m	1.983	
66. Hz				
85.338 °	-94.139 °	79.069 °	-8:	
2.7386 m/s ²	-14.069 m/s ²	1.0976e-005 m	1.404	
33.585 m/s ²	-194.41 m/s²	5.6831e-005 m	-1.978	

FIGURE 70
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM8x

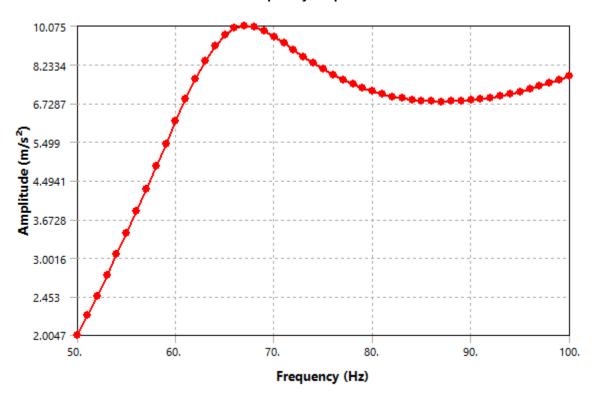


FIGURE 71
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM8y

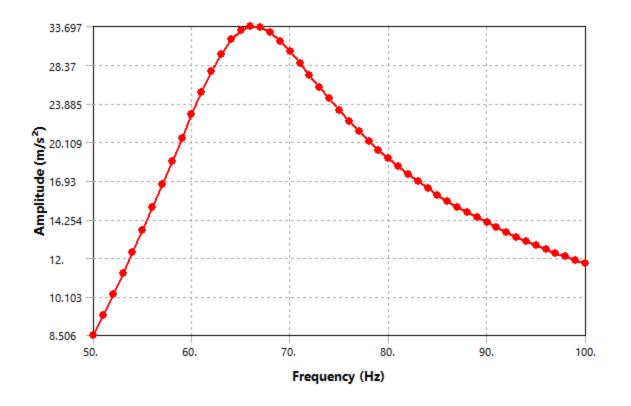


FIGURE 72 Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > AccelerationFrequencyResponseDIMM8z

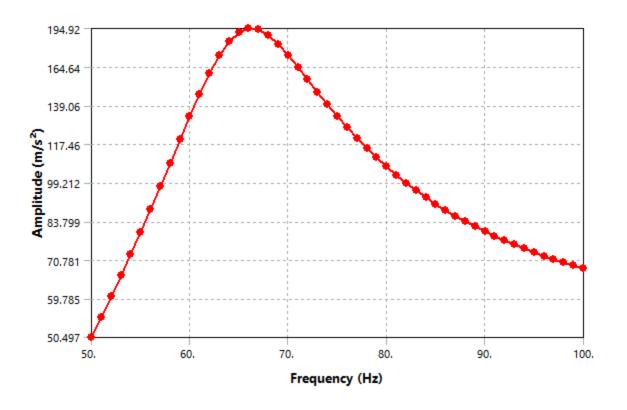


FIGURE 73
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM8x

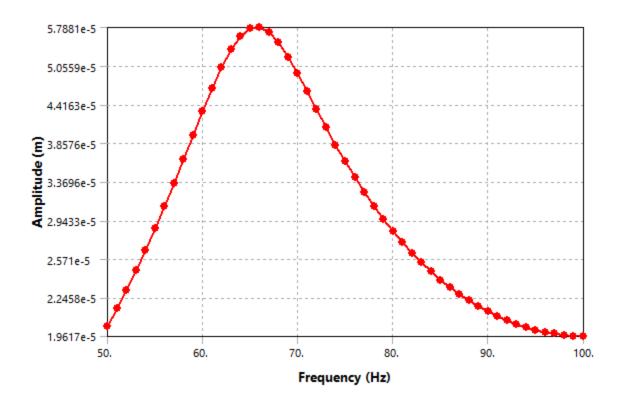


FIGURE 74
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM8y

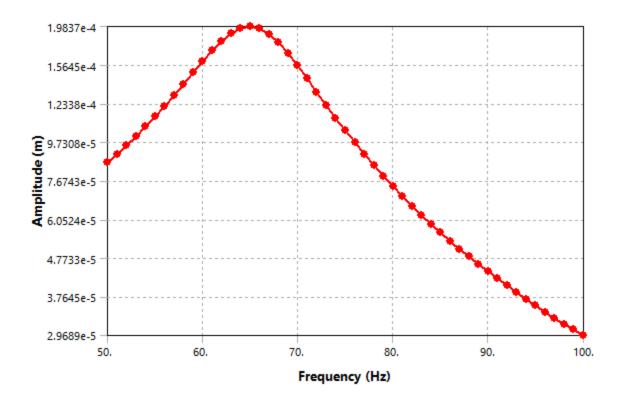
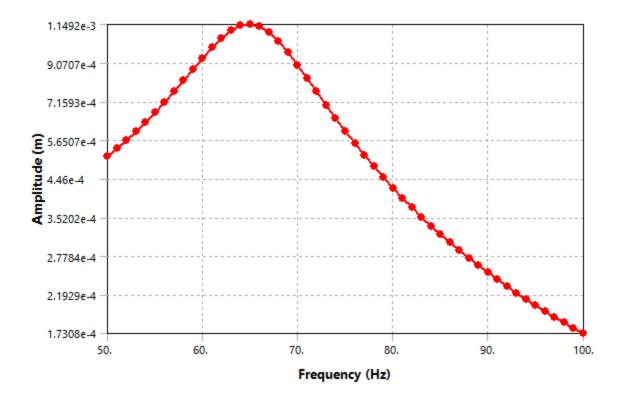


FIGURE 75
Model (A4, B4) > Harmonic Response (B5) > Solution (B6) > DeformationFrequencyResponseDIMM8z



Material Data

AISI 1020 Steel, cold rolled

TABLE 100
AISI 1020 Steel, cold rolled > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
2.05e+011	0.29	1.627e+011	7.9457e+010

TABLE 101
AISI 1020 Steel, cold rolled > Density

Density kg m^-3 7870

TABLE 102

AISI 1020 Steel, cold rolled > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 103
AISI 1020 Steel, cold rolled > Tensile Yield Strength

Tensile Yield Strength Pa

TABLE 104

AISI 1020 Steel, cold rolled > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 4.2e+008

TABLE 105

AISI 1020 Steel, cold rolled > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 486

TABLE 106

AISI 1020 Steel, cold rolled > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1 51.9

Aluminum 6061-T6; 6061-T651

TABLE 107

Aluminum 6061-T6; 6061-T651 > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
6.895e+010	0.33	6.7598e+010	2.5921e+010

TABLE 108

Aluminum 6061-T6; 6061-T651 > Density

Density kg m^-3 2700

TABLE 109

Aluminum 6061-T6; 6061-T651 > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1				
Zero-Thermal-Strain Reference Temperature C				
22				

TABLE 110

Aluminum 6061-T6; 6061-T651 > Tensile Yield Strength

Tensile Yield Strength Pa

TABLE 111

Aluminum 6061-T6; 6061-T651 > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 3.103e+008

TABLE 112

Aluminum 6061-T6; 6061-T651 > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 896

TABLE 113

Aluminum 6061-T6; 6061-T651 > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1
167.2

Nylon

TABLE 114 Nylon > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
3.e+009	0.42	6.25e+009	1.0563e+009

TABLE 115 Nylon > Density Density kg m^-3 1160

TABLE 116

Nylon > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 117 Nylon > Tensile Yield Strength Tangila Viold Strength De

Tensile Yield Strength Pa

TABLE 118 Nylon > Tensile Ultimate Strength Tensile Ultimate Strength Pa

Tensile Ultimate Strength Pa 7.e+007

TABLE 119 Nylon > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 950

TABLE 120 Nylon > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1 0.285

Glass Epoxy Composite

TABLE 121

Glass Epoxy Composite > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
2.14e+010	0.3	1.7833e+010	8.2308e+009

TABLE 122
Glass Epoxy Composite > Density

Density kg m^-3 7300

TABLE 123

Glass Epoxy Composite > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 124

Glass Epoxy Composite > Tensile Yield Strength

Tensile Yield Strength Pa

TABLE 125

Glass Epoxy Composite > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 3.19e+008

TABLE 126

Glass Epoxy Composite > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 1620

TABLE 127

Glass Epoxy Composite > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1 1.19

LCP

TABLE 128

LCP > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
2.e+009	0.36	2.381e+009	7.3529e+008

TABLE 129 LCP > Density

Density kg m^-3

TABLE 130

LCP > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 131

LCP > Tensile Yield Strength

Tensile Yield Strength Pa

TABLE 132 LCP > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 1.17e+008

TABLE 133

LCP > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 1850

TABLE 134

LCP > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1
0.18

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod

TABLE 135

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
1.15e+011	0.31	1.0088e+011	4.3893e+010

TABLE 136

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Density

Density kg m^-3 1653.5

TABLE 137

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 138

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Tensile Yield Strength
Tensile Yield Strength Pa

TABLE 139

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 2.5e+008

TABLE 140

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 385

TABLE 141

Oxygen-free Electronic Copper (OFE), UNS C10100, H00 Temper, flat prod > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1 391

ABS

TABLE 142 ABS > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa
2.e+009	0.36	2.381e+009	7.3529e+008

TABLE 143 ABS > Density

Density kg m^-3

TABLE 144

ABS > Isotropic Secant Coefficient of Thermal Expansion

Coefficient of Thermal Expansion C^-1
Zero-Thermal-Strain Reference Temperature C
22

TABLE 145 ABS > Tensile Yield Strength Tensile Yield Strength Pa

TABLE 146 ABS > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 4.e+007

TABLE 147

ABS > Specific Heat Constant Pressure

Specific Heat J kg^-1 C^-1 1850

TABLE 148

ABS > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1 0.18