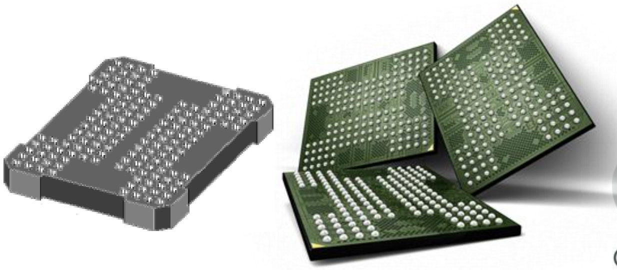
Ironwood ELECTRONICS

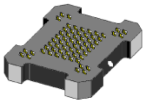
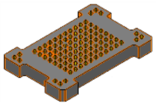
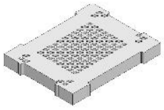
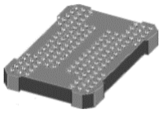
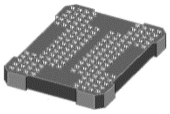
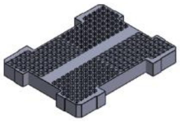


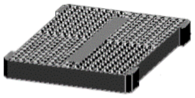
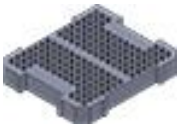
OPEN NAND FLASH INTERFACE

Memory Test Solutions – Grypper

BGA Snaps into Socket – Zero Footprint – No Lid Required – S21 Electrical Performance >40 GHz

Standard ONFi NAND Grypper and G80 Sockets

Typical Applications	Ball Count - Socket size - Pitch- Product	Device Ball Diameter +/- 0.05 mm	Option with SAC 305 Solder Balls	Option with Eutectic Solder Balls	Standard- No Solder Balls
	**24** - 6.0 x 8.0 – 1.0 – Grypper/G80	0.40	**107282-0011**	**107282-0012**	**107282-0010**
	Device Press – 6.0 x 8.0		103864-0107		
	Stencil – 24 – 6.0 x 8.0		N/R	N/R	104553-0334
	**63** - 9.0 x 11.0 - 0.8 - Grypper	0.45	**105526-0097**	**105526-0090**	**105526-0082**
	Device Press – 9.0 x 11.0		103864-0048		
	Stencil MOQ (10)		N/R	N/R	104553-0083
	**100** - 12.0 x 18.0 - 1.0 - Grypper	0.45	**105526-0089**	**105526-0088**	**105526-0057**
	Device Press - 12.0 x 18.0		103864-0083		
	Stencil – 100 – 12.0 x 18.0		N/R	N/R	104553-0133
	**100** - 14.0 x 18.0 - 1.0 - Grypper	0.50	**111050-0002**	**111050-0001**	**111050-0003**
	Device Press- 14.0 x 18.0		103864-0116		
	Stencil - 100 - 14.0 x 18.0		N/R	N/R	104553-0533
	**132** - 12.0 x 18.0 - 1.0 - Grypper	0.50	**104670-0040**	**104670-0043**	**104670-0032**
	Device Press- 12.0 x 18.0		103864-0083		
	Stencil - 132 - 12.0 x 18.0		N/R	N/R	104553-0217
	**152** - 14.0 x 18.0 - 1.0 - Grypper	0.50	**104670-0041**	**108656-0036**	**104670-0036**
	Device Press - 14.0 x 18.0		103864-0116		
	Stencil - 152 - 14.0 x 18.0		N/R	N/R	104553-0248
	**252** - 12.0 x 18.0 - 0.8 - Grypper/G80	0.45	**111041-0002**	**111041-0001**	**111041-0003**
	Device Press - 12.0 x 18.0		103864-0083		
	Stencil - 252 – 12.0 x 18.0		N/R	N/R	104553-0501
	**272** - 14.0 x 18.0 - 0.8 - Grypper/G80	0.55	**107206-0052**	**107206-0016**	**107206-0013**
	Device Press - 14.0 x 18.0		103864-0116		
	Stencil - 272 – 14.0 x 18.0		N/R	N/R	104553-0354

Typical Applications	Ball Count - Socket size - Pitch- Product	Device Ball Diameter +/- 0.05 mm	Option with SAC 305 Solder Balls	Option with Eutectic Solder Balls	Standard- No Solder Balls
	**316** - 14.0 x 18.0 - 0.8 - Grypper/G80	0.50	**107088-0011**	**107088-0012**	**107088-0010**
	Device Press - 14.0 x 18.0		103864-0116		
	Stencil - 316 – 14.0 x 18.0				104553-0289
	**154** - 11.5 x 13.5 - 0.80 - Grypper	0.50	**GR1110-0002**	**GR1110-0001**	**GR1110-0003**
	Alignment Frame		108639-0179		
	Device Press - 11.5 x 13.0		103864-0128		
	Stencil - 154 – 11.5 x 13.5				104553-0605

Actual device measurements should be reviewed to ensure proper fit with socket contacts

Options: **With Solder balls: SAC 305 or Eutectic**

Extraction Tool: 105900-0004

Reference JEDEC and ONFi Specifications; JEDEC - JESD230 and ONFi 5.1 Standards for standard device pin configurations

Additional NAND sockets are also available – Contact Ironwood with your device drawing / application for quote