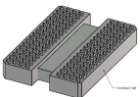
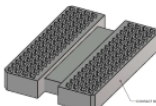
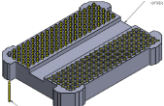
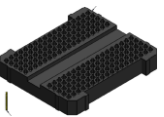


# Memory Test Solutions – Grypper

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

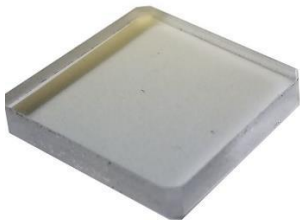
## Standard DDR – GDDR Grypper Sockets

	Ball Count - Socket Size - Pitch - Product	Device Ball Diameter +/-0.05mm	Option with SAC 305 Solder Balls	Option with Eutectic Solder Balls	Standard -No Solder Balls
<b>DDR2</b>					
	<b>60 - 8.0 x 11.4 - 0.8 - Grypper</b>	0.45	<b>105526-0099</b>	<b>105526-0098</b>	<b>105526-0068</b>
	Device Press - 8.0 x 11.4		103864-0108		
	Stencil - 60 - 8.0 x 11.4		N/R	N/R	104553-0169
	<b>84 - 7.6 x 12.5 - 0.8 - Grypper</b>	0.45	<b>105526-0101</b>	<b>105526-0100</b>	<b>105526-0037</b>
	Device Press - 8.0 x 12.5		103864-0075		
	Stencil - 84 - 8.0 x 12.0		N/R	N/R	104553-0108
<b>DDR3</b>					
	<b>82 - 9.4 x 11.1 - 0.8 - Grypper</b>	0.45	<b>105526-0091</b>	<b>105526-0092</b>	<b>105526-0056</b>
	Device Press - 9.4 x 11.1		103864-0088		
	Stencil - 82 - 9.4 x 11.1		N/R	N/R	104553-0129
<b>DDR3/4</b>					
	<b>78- 7.5 x 10.6 - 0.8 - Grypper</b>	0.45	<b>108493-0009</b>	<b>107022-0048</b>	<b>107022-0038</b>
	Device Press - 7.5 x 10.6		103864-0119		
	Stencil - 78 - 7.5 x 10.6		N/R	N/R	107030-0038
	<b>78- 7.5 x 10.6 - 0.8 - Grypper</b>	0.50	<b>111015-0002</b>	<b>111015-0001</b>	<b>111015-0003</b>
	Device Press - 7.5 x 10.6		103864-0119		
	Stencil - 78 - 7.5 x 10.6		N/R	N/R	104553-0441
	<b>96 - 7.5 x 13.1 - 0.8 - Grypper</b>	0.45	<b>108493-0014</b>	<b>108493-0015</b>	<b>105526-0015</b>
	Device Press - 7.5 x 13.1		103864-0060		
	Stencil - 96 - 7.5 x 13.1		N/R	N/R	104553-0071
	<b>96 - 7.5 x 13.1 - 0.8 - Grypper</b>	0.50	<b>111017-0002</b>	<b>111017-0001</b>	<b>111017-0003</b>
	Device Press - 7.5 x 13.1		103864-0060		
	Stencil - 96 - 7.5 x 13.1		N/R	N/R	104553-0449
<b>DDR5</b>					
	<b>102 - 9.0 x 14.4 - 0.80 - Grypper</b>	0.45	<b>GR1027-0002</b>	<b>GR 1027-0001</b>	<b>GR1027-0003</b>
	Device Press - 9.0 x 14.4		103864-0133		
	Stencil - 102 - 9.0 x 14.4		N/R	N/R	104553-0216

	Ball Count - Socket Size - Pitch - Product	Device Ball Diameter +/-0.05mm	Option with SAC 305 Solder Balls	Option with Eutectic Solder Balls	Standard -No Solder Balls
<b>GDDR3</b>					
	136 - 10.0 x 14.0 - 0.8 - Grypper	0.45	107022-0056	107022-0055	107022-0026
	Device Press - 10.0 x 14.0		103864-0109		
	Stencil - 136 - 10.0 x 14.0		N/R	N/R	107030-0026
<b>GDDR5</b>					
	170 - 12.0 x 14.0 - 0.8 - Grypper	0.45	105526-0103	105526-0102	105526-0070
	Device Press - 12.0 x 14.0		103864-0111		
	Stencil - 170 - 12.0 x 14.0		N/R	N/R	107030-0027
<b>GDDR5 -x</b>					
	190 - 10.0 x 14.0 - 0.65 - Grypper	0.40	111008-0002	111008-0001	111008-0003
	Device Press - 10.0 x 14.0		103864-0109		
	Stencil - 190 - 10.0 x 14.0		N/R	N/R	104553-0396
<b>GDDR6</b>					
	180 - 12.0 x 14.0 - 0.75 - Grypper	0.45	111024-0002	111024-0001	111024-0003
	Device Press - 12.0 x 14.0		103864-0066		
	Stencil - 180 - 12.0 x 14.0		N/R	N/R	104553-0455
	180 - 12.0 x 14.0 - 0.75 - Grypper	0.50	111027-0002	111027-0001	111027-0003
	Device Press - 12.0 x 14.0		103864-0066		
	Stencil - 180 - 12.0 x 14.0		N/R	N/R	104553-0465

Typical Lead time 1-2 weeks

Standard Grypper Product does not have solder balls - stencil used for attachment - solder balling is an available option  
 Actual device measurements should be reviewed to ensure proper fit with socket contacts  
 Other configurations / socket outline sizes available upon request.



**Device Press:** Recommended to ensure even pressure across the back of the device for inserting



**Extraction Tool:** 105900-0004 - used to remove device from socket