

SpecTek Components Part Number Matrix



Last Updated: 10/21/2020

PRN 1G8 V91A G 8 SN - 107

SpecTek/Customer Mark

- SpecTek Component
- PNL = No SpecTek Logo
- PRA = SpecTek Mark Assembly, 8 chip only
- PRN = SpecTek Mark; 8 chip only
- PRM = Logo Blast Mark, 8 chip only
- SGG = SpecTek Mark; component sale
- SMG = Logo Blast Mark; component sale
- SUM = Marked TP/DG/SSMB
- SUU = Unmarked TP/DG
- Components for Module Builds
- SCD = Crucial FBGA code, Micron logo for SSDs
- SCM = Crucial FBGA code, Micron logo
- SCT = Crucial "C" build
- SMC = Crucial Ballistix (prime marked)
- SMD = Crucial Micron Marked w/CPG FBGA Code for SSDs
- SMM = Crucial Micron Marked/Reball w/CPG FBGA Code
- SMU = Crucial Ballistix (prime unmarked)
- SNM = Micron no SpecTek Mark
- Settle & Ship
- XAA = SpecTek Generic (Generic Mark)
- XBA = SpecTek Generic (3 line Mark)
- XCB = Chip on Board (3 line Mark)
- XCBB = Chip on Board "Reconfigured Component"

Component Depth and Width

Internal Designator

- D = DRAM
- P = PSRAM
- T = DDR
- U = DDR2
- V = DDR3
- Y = SDRAM
- Z = DDR4

Voltage*

- B = 1.1V
- D = 1.2V DDR4
- F = 1.4V DDR4
- G = 1.5V DDR3
- J = 1.35V DDR3
- L = 3.3V SDRAM
- M = 1.65V Mobile SDRAM
- O = 1.8V DDR2
- V = 2.5V DDR
- U = Undetermined

Speed/Speed Grade Field

- DDR2 (1.8V)
 - 5E (PC2-3200/DDR2 400 3-3-3)
 - 37E (PC2-4200/DDR2 533 4-4-4)
 - 3 (PC2-5300/DDR2 667 5-5-5)
 - 25 (PC2-6400/DDR2 800 6-6-6)
 - 25E (PC2-6400/DDR2 800 5-5-5)
 - 18X (PC2-8500/DDR2 1066 7-7-7)
- DDR3 (1.35V)
 - 15K (PC3-10600/DDR3 1333 9-9-9)
 - 12K (PC3-12800/DDR3 1600 11-11-11)
 - 12L (PC3-12800/DDR3 1600 8-8-8-24)
 - 12P (PC3-12800/DDR3 1600 9-9-9-24)
 - A7K (PC3-14900/DDR3 1866 13-13-13)
 - A7L (PC3-15000/DDR3 1866 9-9-9-27)
 - A7P (PC3-15000/DDR3 1866 10-10-10-30)
 - A7R (PC3-15000/DDR3 1866 10-11-10)
- DDR3 (1.5V)
 - 187 (PC3-8500/DDR3 1066 8-8-8)
 - 18E (PC3-8500/DDR3 1066 7-7-7)
 - 15 (PC3-10600/DDR3 1333 10-10-10)
 - 15E (PC3-10600/DDR3 1333 9-9-9)
 - 15M (PC3-10600/DDR3 1333 7-7-7-24)
 - 125 (PC3-12800/DDR3 1600 11-11-11)
 - 12E (PC3-12800/DDR3 1600 10-10-10-28)
 - 12H (PC3-12800/DDR3 1600 9-9-9-24)
 - 12M (PC3-12800/DDR3 1600 8-8-8-24)
 - 107 (PC3-14900/DDR3 1866 13-13-13)
 - A7F (PC3-15000/DDR3 1866 10-11-10)
 - A7H (PC3-15000/DDR3 1866 10-10-10-30)
 - A7M (PC3-15000/DDR3 1866 9-9-9-27)
 - 93M (PC3-17000/DDR3 2133 9-11-9-27)
- DDR4 (1.2V)
 - 93E (PC4-17000/DDR4 2133 15-15-15)
 - 93 (PC4-17000/DDR4 2133 16-16-16)
 - 83E (PC4-19200/DDR4 2400 16-16-16)
 - 071 (PC4-22400/DDR4 2800 20-20-20-49)
 - 075 (PC4-21300/DDR4 2666 19-19-19)
 - 75M (PC4-21300/DDR4 2666 16-17-17-36)
 - 75M (PC4-21300/DDR4 2666 16-17-17-36)
 - 68(X) (PC4-23400 DDR4 2933 20-20-20)
- DDR4 (1.35V)
 - 55M (PC4-28800/DDR4 3600 16-18-18)
 - 57M (PC4-27700/DDR4 3466 16-18-18)

Component Package

Lead Count/Ball Array/Package Size (see next page)

Refresh

- 2 = 2K
- 4 = 4K
- 6 = 16K
- 8 = 8K Grade A ~98-100%
- 9 = 8K Grade B ~96-100%
- A = 8K trimmed (blanket blown)
- B = 8K 1.6V smart trimmed
- C = 8K 1.4V smart trimmed
- D = 8K Disabled Regulator
- E = 8K Stack trimmed
- F = 8K OC/A timing trimmed
- U = Undetermined

Component Packages Lead/Ball Counts & Tray Size

PKG Code	PKG Description	Valid DID	# of Die
BAF	FBGA 78/117B, 10.5x11x1.2	Z22A	2
CF	FBGA 60/99B, 8x10x1.2	U67A	1
CHB	FBGA 96/144B, 9.5x14x1.2	V91A	2
CLU	TFBGA 78/117B, 7.5x11x1.2	Z11B (w/TSV)	4
DA	TFBGA 78/117B, 8x10.5x1.2	V79B/V88A/V89B/V89C/V00H	1
DGA	TFBGA 96/144B, 9.5x14x1.2	V91A	2
DS	FBGA 78/117B, 9.5x11.5x1.2	V80A	1
DVN	TFBGA 78/117B, 7.5x11.5x1.2	Z11B (w/TSV)	2
EB	FBGA 60/99B, 9x11.5x1.2	U69A	1
EF	TFBGA 78/117B, 8x10.5x1.2	V99B	1
EFN	VFBGA 78/117B, 7.5x11x1	Z11B	4
FS	FBGA 96/144B, 9x14x1.2	V80A	1
FSE	FBGA 78/117B, 9.5x13x1.2	Z91B	2
GE	TFBGA 96/144B, 9x14x1.2	Z90B	1
HA	FBGA 96/144B, 9x14x1.2	V80A, V91A, Z80A	1
HB	VFBGA 82/143B, 9x11x1.0	Y32A	1
HBA	TFBGA 96/144B, 9.5x14x1.2	Z91B	2
HC	VFBGA 102/153B, 9x14x1.0	Y32A	
HPR	TFBGA 78/117B, 8x12x1.2	Z01C (w/TSV)	2*
HX	FBGA 78/117B, 9x11.5x1.2	Z80A	1
JC	TFBGA 78/117B, 9x11x1.2	Z32C, Z32D	1
JP	FBGA 78/117B, 8x11.5x1.2	V58A/V68A	1
JY	TFBGA 96/144B, 8x14x1.2	Z01A, Z01B	1
KD	TFBGA 96/144B, 9x13x1.2	Z32C, Z32D	1
KJR	FBGA 78/117B, 9.5x13x1.2	V91A	2
KL	TFBGA 78/117B, 9x11x1.2	2B9C	1
KNR	TFBGA 96, 7.5x13.5x1.2	Z11B	2
KVA	TFBGA 78/117B, 8x12x1.2	Z01C (w/TSV)	4*
LY	TFBGA 96/144B, 7.5x13.5x1.2	V90B/Z01B/Z11B/Z11C	1
NEA	TFBGA 78/117B, 7.5x11x1.2	Z11A/Z21C	2
NF	FBGA 84/135B, 8x12.5x1.2	U88B	1
NRE	FBGA 78/117B, 8x12x1.2	Z01A	2
PA	BGA 168/169B, 13.5x13.5x1.2	F67R	1
PM	FBGA 78/117B, 9x13.2x1.2	Z91B	1
RC	TFBGA 96/144B, 10x13x1.2	V90B/Z22A	1
RFE	FBGA 78/117B, 8x10.5x1.45	V90B	4
RG	FBGA 78/117B, 7.5x10.6x1.2	V90B	1
RH	FBGA 78/117B, 9x10.5x1.2	V80A	1
RKB	TFBGA 78/117B, 8x10.5x1.2	V90B, V00H	2*
SA	TFBGA 78/117B, 7.5x11x1.2	Z11B/Z11C	1
SH	FBGA 60/117B, 8x10x1.2	U88B	1
SKL	TFBGA 96/144B, 10.5x13x1.2	Z22A	2
SMA	TFBGA 78/117B, 9.5x11.5x1.45	V80A	4
SN	FBGA 78/117B, 9x13.2x1.2	V91A	1
TB	TFBGA 96/144B, 7.5x13x1.2	Z20A/Z21C/Z40A/Z41A	1
TBB	TFBGA 96/144B, 7.5x13x1.2	Z41C/Z42B	2
THD	FBGA 78/117B, 9x11.5x1.2	V69A	2
THE	FBGA 78/112B, 10.5x12x1.2	V70S	2
THN	FBGA 63/99B, 8x10x1.2	U88B	2
TRF	FBGA 78/117B, 9.5x11.5x1.2	Z80A	2
TW	FBGA 96/144B, 8x14x1.2	V88A/V99B/V00H	1
VA	TFBGA 78/117B, 10x11x1.2	Z22A	1
VNE	TFBGA 78/117B, 10x11x1.2	Z22A	2
VRN	TFBGA 96/144B, 8x14x1.2	V00H	2
WBU	FBGA 96/144B, 8x14x1.2	Z01A	2
WE	TFBGA 78/117B, 8x12x1.2	Z01A, Z01B	1
WPF	TFBGA 96/144B, 10.5x13x1.2	Z22A	4
WTR	FBGA 63/99B, 9x11.5x1.2	U69A	2

(*) Denotes number of functioning die is not always as it should be. Check with Planner if questions.

