

# SpecTek Components Part Number Matrix



Last Updated: 10/23/2017

**PRN 1G8 V91A G 8 SN - 107**

**SpecTek/Customer Mark**

- SpecTek Component  
 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  
 SNL = SpecTek No Logo Mark  
 SUM = SpecTek C-Grade flow; marked  
 SUU = SpecTek C-Grade flow; unmarked
- Components for Module Builds  
 SAA = SpecTek Mark  
 SCM = Crucial logo design; Micron  
 SCI = Crucial logo design; Inotera  
 SCT = Crucial "C" build  
 SMA = Logo Blast Mark  
 SMI = Micron Marked w/CPG logo Inotera  
 SMB = Ballistix Alternative Component  
 SMC = Crucial Ballistix  
 SMM = Micron Marked w/CPG logo  
 SNI = Micron no SpecTek Mark; Inotera  
 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"

**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)

**Component Depth and Width**

**Internal Designator**

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

**Voltage\***

- 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

**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  
 U = Undetermined

## Component Packages Lead/Ball Counts & Tray Size

PKG Code	PKG Description	Valid DID	# of Die
CF	FBGA 60/99B, 8x10x1.2	U67A	1
CHB	FBGA 96/144B, 9.5x14x1.2	V91A	2
DA	TFBGA 78/117B, 8x10.5x1.2	V79B/V88A/V89B/V89C/V00H	1
DGA	TFBGA 96/144B, 9.5x14x1.2	V91A	2
DS	FBGA 78/112B, 9.5x11.5x1.2	V80A	1
EB	FBGA 60/99B, 9x11.5x1.2	U69A	1
EF	TFBGA 78/117B, 8x10.5x1.2	V99B	1
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
HBA	TFBGA 96/144B, 9.5x14x1.2	Z91B	2
HX	FBGA 78/117B, 9x11.5x1.2	Z80A	1
JP	FBGA 78/117B, 8x11.5x1.2	V58A/V68A	1
JY	TFBGA 96/144B, 8x14x1.2	Z01A, Z01B	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
LY	TFBGA 96/144B, 7.5x13.5x1.2	V90B/Z01B/Z11B/Z11C	1
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
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
SMA	TFBGA 78/117B, 9.5x11.5x1.45	V80A	4
SN	FBGA 78/117B, 9x13.2x1.2	V91A	1
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
WBU	FBGA 96/144B, 8x14x1.2	Z01A	2
WE	TFBGA 78/117B, 8x12x1.2	Z01A, Z01B	1
WTR	FBGA 63/99B, 9x11.5x1.2	U69A	2

