

# SpecTek MCP PoP Part Numbering System



Last Update: 08/23/2010

**S M J40D 2G NA A K x A JA F - S1**

SpecTek Memory  
FN, FT, FB = SpecTek

M = Marked  
U = Unmarked

Design ID

NAND Density

1G = 1Gib    AG = 16Gib  
2G = 2Gib    BG = 32Gib  
4G = 4Gib    CG = 64Gib  
8G = 8Gib    DG = 126Gib

NA = Not Defined

Operating Voltage Range

A = 1.7V – 1.95V  
C = 1.5V – 1.7V  
D = 1.2V – 1.5V  
F = 1.0V – 1.2V

NAND Flash I/O Width

Width Design ID		Width Design ID			
A	x8	M28A	L	x8	L59A
B	x16	M28A	M	x16	L59A
C	x8	M48A	N	x8	M50A
D	x16	M48A	P	x16	M50A
E	x8	L58A	R	x8	L51A
F	x16	L58A	T	x16	L51A
G	x8	M49A	U	x8	M58A
H	x16	M49A	V	x16	M58A
J	x8	M59A	Y	x8	M50A
K	x16	M59A	Z	x16	M50A

x = Not Defined

Speed Grade

S1 = Untested Settle and Ship (100% of NAND Density)  
S8 = Untested Settle and Ship (80% of NAND Density)  
S7 = Untested Settle and Ship (70% of NAND Density)

L = PB

F = PB-free

Package Code

	Balls	Pkg	Outline	Ball Pitch	Pkg Type	Pinout Version	Pkg Height
CA	152	PoP	14x14	0.65mm	VFBGA	OMAP	0.9mm thick
CG	152	PoP	14x14	0.65mm	VFBGA	OMAP	1.0mm thick
CL	152	PoP	14x14	0.65mm	VFBGA	OMAP	LOCK TIGHT
CZ	133	MCP	10x13	TBD	VFBGA	TBD	1.0mm thick
HB	149	MCP	10x13.5	0.80mm	TFBGA	JEDEC	1.2mm thick
HP	160	PoP	15x15	0.65mm	TFBGA	JEDEC	1.1mm thick
HX	152	PoP	14x14	0.65mm	VFBGA	EMP	1.1mm thick
HY	152	PoP	14x14	0.65mm	TFBGA	EMP (U)	1.17mm thick
HZ	152	PoP	14x14	0.65mm	VFBGA/TFBGA	EMP	1.0mm thick
JA	137	MCP	10.5x13	0.80mm	TFBGA	JEDEC	1.2mm thick
JC	107	MCP	10.5x13	0.80mm	TFBGA	JEDEC	1.2mm thick
JF	152	PoP	14x14	0.65mm	VFBGA	JEDEC	1.0mm thick
JG	168	PoP	12x12	0.50mm	VFBGA	OMAP	0.9mm thick
JH	128	PoP	12x12	0.65mm	VFBGA	JEDEC	1.1mm thick
JI	168	PoP	12x12	0.50mm	TFBGA	OMAP	1.1mm thick
JQ	152	PoP	14x14	0.65mm	TFBGA	OMAP	1.1mm thick
JR	137	MCP	10.5x13	0.65mm	LFBGA	JEDEC	1.4mm thick
JS	137	MCP	10.5x13	0.65mm	TFBGA	QLC	1.2mm thick
JV	168	PoP	12x12	0.50mm	VFBGA	OMAP	1.0mm thick
JZ	152	PoP	14x14	0.65mm	LFBGA	EMP	1.27mm thick
KA	160	PoP	15x15	0.65mm	TFBGA	JEDEC A	1.1mm thick
KC	107	MCP	10.5x13	0.80mm	TFBGA	JEDEC	1.1mm thick
KD	137	MCP	10.5x13	0.80mm	TFBGA	JEDEC	1.1mm thick
KE	160	PoP	15x15	0.65mm	VFBGA	JEDEC	1.0mm thick
KM	128	PoP	12x12	0.65mm	VFBGA	EMP	0.95mm thick
KN	184	PoP	14x14	0.50mm	VFBGA	EMP	1.0mm thick
KQ	168	PoP	12x12	0.50mm	WFBGA	OMAP	0.75mm thick
KZ	152	PoP	14x14	0.65mm	TFBGA	OMAP	1.2mm thick
MA	168	PoP	12x12	0.50mm	WFBGA	OMAP	0.7mm thick
MB	152	PoP	14x14	0.65mm	WFBGA	OMAP	0.8mm thick
MC	240	PoP	14x14	0.50mm	WFBGA	QCT	0.8mm thick
MD	130	MCP	8x9	0.65mm	VFBGA	JEDEC	1.0mm thick
ME	240	PoP	14x14	0.50mm	TFBGA	QCT	1.12mm thick
MF	168	PoP	12x12	0.50mm	VFBGA	OMAP	0.85mm thick

Chip Count

A = 1 NAND    E = 1 NAND  
B = 2 NAND    F = 2 NAND  
C = 1 NAND    G = 1 NAND  
D = 2 NAND