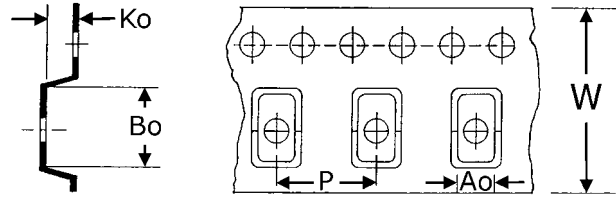


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SHAMSHAD CARRIER TAPE

March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SOIC-8	12	8	6,5	5,3	2,1		90
SOIC-14	16	8	6,5	9,5	2,1		90
SOIC-16	16	8	6,6	10,3	2,1		90
SOIC-16L	16	12	10,9	10,8	3,0		65
SOIC-18L	24	12	10,8	12,0	3,0		65
SOIC-20N	24	12	8,3	13,2	2,2		26
SOIC-20L	24	12	10,9	13,3	3,0		65
Power 20	24	20	14,7	16,2	3,8		55
SOIC-24L	24	12	10,9	15,8	3,0		65
SOIC-28L	24	12	10,9	18,3	3,0		65
SO-28XWL	24	16	12,4	18,8	3,0		65
SOIC-32L	32	16	14,7	20,9	3,4	3,0	52
SOIC-40L	44	24	14,8	26,6	3,3		51
SOIC-44L	44	24	15,8	29,0	3,5	3,0	51
SOT-23	8	4	3,1	2,7	1,2		Call
SOT-235	8	4	2,9	3,6	1,3		Call
SOT-223	12	8	6,9	7,5	1,9		97
SOT-89	12	8	4,9	4,5	1,8		Call
SOMC-14	24	12	8,2	10,3	2,5		80
SOMC-16	24	12	8,2	11,6	2,5		80
TSOP-28	24	12	8,7	13,9	2,1		95
TSOP44/50	32	16	12,4	21,4	2,1	1,3	93

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The dimensions are in mm. The tolerances are $\pm 0,1$, except $W = \pm 0,3$. The length is in meters.

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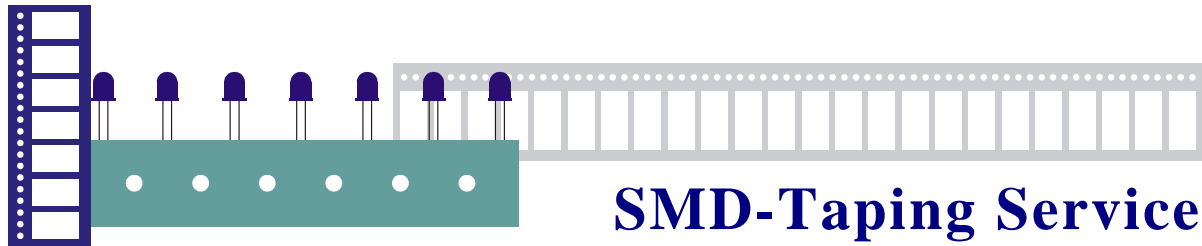
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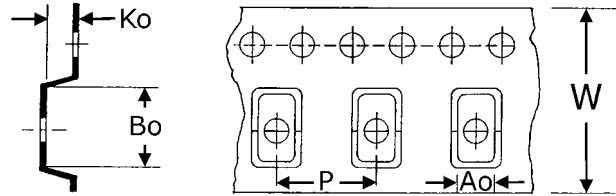


Halle 3
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March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
TSSOP-8	12	8	6,8	3,4	1,6	1,3	99
TSSOP14/16	16	8	6,8	5,5	1,6	1,3	62
SOJ-26	24	12	9,3	17,8	4,0		54
SOJ-28	24	12	9,3	18,8	4,0		54
SOJ-32	32	12	9,0	21,3	4,0		50
SOJ-36	44	16	11,6	24,2	4,4	2,8	50
SOJ-40	44	16	11,6	26,6	4,4		45
SOJ-42	44	16	11,6	27,7	4,3	3,0	47
SOJ-44	44	16	11,7	29,2	4,3	3,0	48
PLCC-20	16	12	10,4	10,4	4,9		45
PLCC-28	24	16	13,0	13,0	4,9		45
PLCC-32	24	16	12,9	15,5	3,9		43
PLCC-44	32	24	18,0	18,0	4,9		40
PLCC-52	32	24	20,5	20,5	5,3		40
PLCC-68	44	32	25,6	25,6	5,3		40
PLCC-84	44	36	30,7	30,7	5,3		40
SSOP-20	16	12	8,2	7,5	2,5	2,1	79
SSOP-24	16	12	8,4	8,7	2,5	2,0	79
SSOP-24H	16	12	9,0	8,7	2,5	2,0	90
SSOP-28	16	12	8,4	10,7	2,5	2,0	85
SSOP-44	32	16	10,7	18,4	3,1	2,6	65
SSOP-48	32	16	11,4	16,2	3,1	2,4	60

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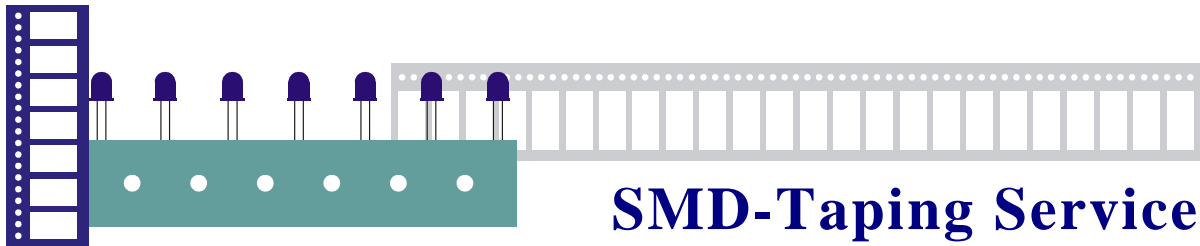
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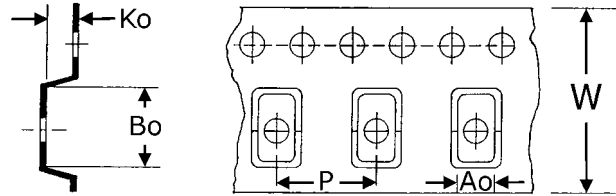


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March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
D-PAK 1	16	8	6,9	10,5	2,7		70
D-PAK 2	24	16	10,6	15,8	4,9		40
D-PAK 3	24	16	11,0	14,6	5,0		30
TQFP0707 1.4	16	12	9,5	9,5	2,2	1,7	90
QFP1010 2.0	24	24	16,5	16,5	2,8	2,2	65
TQFP1010 1.4	24	16	12,35	12,35	2,2		90
TQFP1414 1.4	24	20	16,5	16,5	1,9	1,55	90
QFP1414 1.4B	32	24	17,55	17,55	2,4		
QFP1420 2.7	32	24	19,5	25,5	3,7	2,8	55
QFP2828 3.5	44	48	33,5	33,5	4,5	3,5	45
TQFP2020 1.4	44	32	23,4	23,4	2,0	1,4	78
TQFP1420 1.4	44	24	16,5	22,4	2,2	1,7	90
Bridge	12	8	5,1	7,1	2,8	1,3	
Tant C	12	8	3,5	6,4	2,9		65
MLC 2224	12	8	6,0	6,5	2,5		65
Opt. TLP	12	8	4,8	7,5	3,2		Call
Opt. 8	16	8	6,5	5,4	3,6		58
Opt. Sie	16	8	10,5	5,3	4,3		50
SMD SO-4 R	16	12	9,1	9,8	3,1		Call
SMD 60 K	24	16	11,9	12,1	4,2		50
SMD 64 K	32	12	7,2	20,3	2,8		52
SMD 90 K	16	12	9,6	10,3	4,9		45

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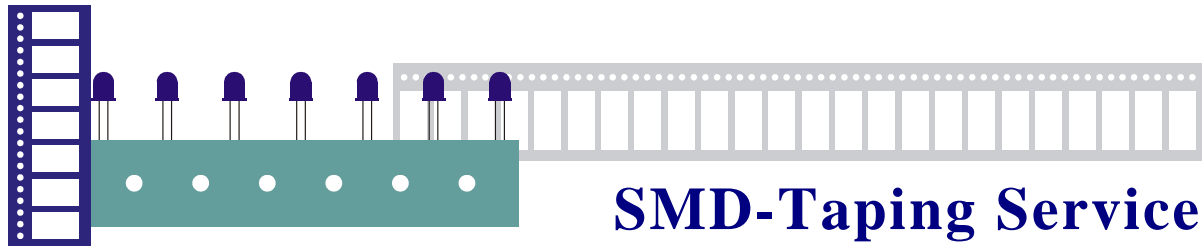
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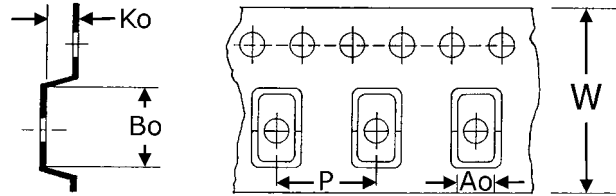


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Package	W	P	Ao	Bo	Ko	K1	Length
SMD 472 K	24	8	5,2	14,3	3,6		56
SMD 473 K	32	16	10,4	18,4	4,4		46
Minimelf	8	4	1,9	3,7	1,0		43
0603/0,8	8	4	0,95	1,75	0,80		
0603/1,0	8	4	1,00	1,80	1,00		
0603/0,7	8	4	1,00	1,80	0,70		
0603/058	8	4	1,03	1,83	0,58		
SMD 001	8	4	1,30	2,90	1,10		
0805/1,3	8	4	1,35	2,15	1,30		
SMD 002	8	4	1,35	1,50	0,70		
SMD 003	8	4	1,40	2,90	1,10		
0805/0,9	8	4	1,50	2,25	0,90		
0805/1,0	8	4	1,50	2,25	1,00		
0805/1,1	8	4	1,50	2,25	1,10		
0805/0,8	8	4	1,50	2,25	0,80		
0805/1,3V2	8	4	1,52	2,28	1,35		
SMD 004	8	4	1,60	1,40	0,80		
SMD 005	8	4	1,65	4,00	1,15		
SMD 006	8	4	1,72	3,72	1,60		
1206 1,4	8	4	1,85	3,45	1,40		
1206 1,1	8	4	1,88	3,53	1,10		
1206 1,0	8	4	1,88	3,53	1,00		

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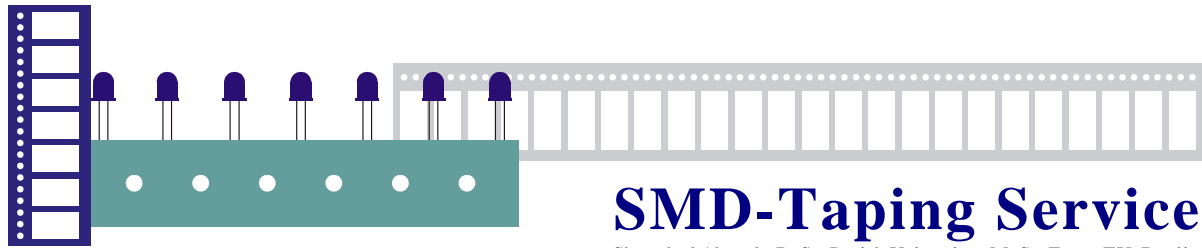
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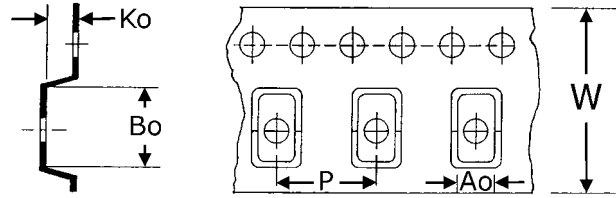


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Package	W	P	Ao	Bo	Ko	K1	Length
SMD 007	8	4	1,90	3,50	1,65		
SMD 008	8	4	2,00	2,20	1,00		
SMD 009	8	4	2,15	2,30	1,10		
SMD 010	8	4	2,60	3,80	1,00		
1210/1,3	8	4	2,80	3,50	1,30		
1210/1,1	8	4	2,80	3,50	1,10		
SMD 011	8	4	3,10	3,80	1,95		
SMD 012	8	4	3,15	2,60	1,15		
SMD 013	8	4	3,40	3,40	1,50		
SMD 014	8	4	1,35	2,25	0,90		
SMD 015	8	4	1,50	3,50	1,90		
SMD 016	8	4	1,90	3,50	1,80		
SMD 017	8	4	1,90	3,60	1,90		
SMD 018	8	4	2,00	3,63	1,48		
SMD 019	8	4	2,70	1,10	1,99		
SMD 020	8	4	2,80	3,75	1,70		
SMD 021	8	4	3,10	3,70	2,20		
SMD 022	8	4	3,10	3,80	2,20		
SMD 023	8	4	3,20	3,80	2,05		
SMD 024	8	4	3,30	3,80	2,10		
SMD 025 hr	8	8	5,60	5,50	1,70		
SMD 026	8	4	2,60	2,90	2,30		

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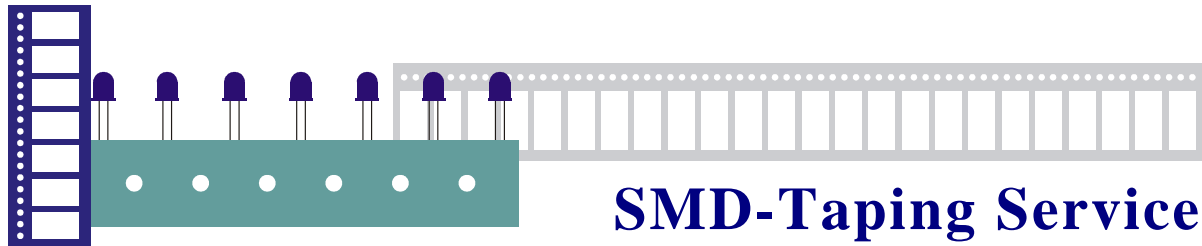
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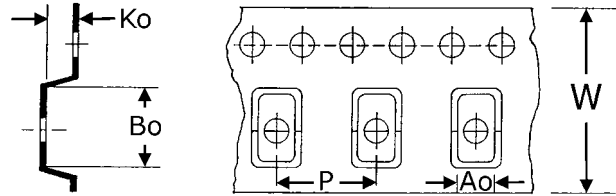


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SHAMSHAD CARRIER TAPE

March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SMD 027	12	4	3,00	5,60	2,10		
SMD 028	12	4	3,40	3,40	1,50		
SMD 029	12	8	4,25	6,45	2,10		
SMD 030	12	8	5,20	3,20	1,40		
SMD 031	12	8	5,30	5,70	1,80		
SMD 032	12	8	6,80	7,55	1,75		
SMD 033	12	4	2,90	5,50	2,70		
SMD 034	12	4	3,10	3,10	1,10		
SMD 035	12	4	3,20	6,70	0,80		
SMD 036	12	8	3,50	6,40	3,00		
SMD 037	12	8	3,50	6,40	1,80		
SMD 038	12	8	3,60	4,80	3,55		
SMD 039	12	8	4,70	7,70	3,30		
SMD 040	12	8	4,70	7,70	2,30		
SMD 041	12	8	4,70	7,70	1,80		
SMD 042	12	4	2,90	5,40	2,40		
SMD 043	12	8	3,70	6,40	3,00		
SMD 044	12	8	3,80	5,40	2,60		
SMD 045	12	8	4,25	3,95	4,30		
SMD 046	12	8	4,70	7,70	4,50		
SMD 047	12	8	5,40	5,90	5,45		
SMD 048	12	8	2,90	6,30	5,20		

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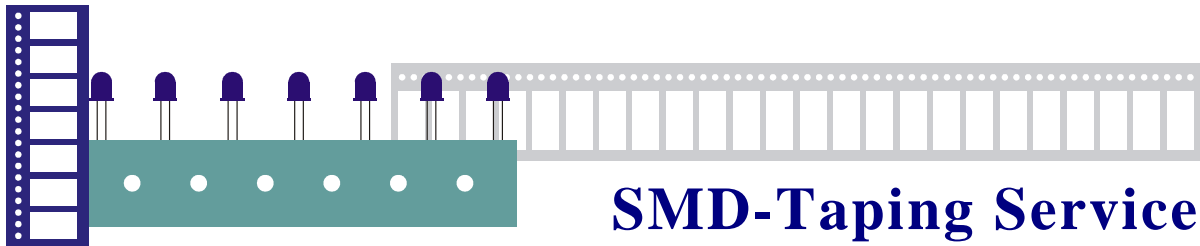
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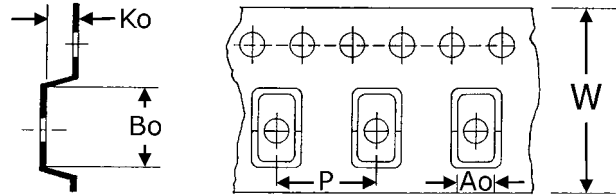
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March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SMD 049	16	8	6,40	8,40	2,60		
SMD 050	16	8	6,50	9,50	5,60		
SMD 051	16	8	6,65	9,50	1,90		
SMD 052	16	12	7,50	9,00	2,50		
SMD 053	16	12	9,50	7,50	1,90		
SMD 054	24	8	5,00	13,40	3,50		
SMD 055	24	8	5,30	12,60	2,00		
SMD 056	24	8	7,10	13,90	2,00		
SMD 057	24	12	8,00	12,20	3,80		
SMD 058	24	12	8,50	12,80	3,00		
SMD 059	24	12	8,60	14,40	2,65		
SMD 060	24	12	8,90	17,90	4,00		
SMD 061	24	12	8,90	12,80	4,00		
SMD 062	24	12	9,70	16,50	2,95		
SMD 063	24	12	10,40	17,00	4,05		
SMD 064	24	16	11,20	13,70	4,50		
SMD 065	24	16	18,25	18,75	3,20		
SMD 066	24	8	5,00	13,20	4,20		
SMD 067	16	8	4,00	9,60	2,20		
SMD 068	16	8	4,00	9,55	2,15		
SMD 069	16	12	8,80	9,80	5,20		
SMD 070	16	12	10,40	5,10	4,20		

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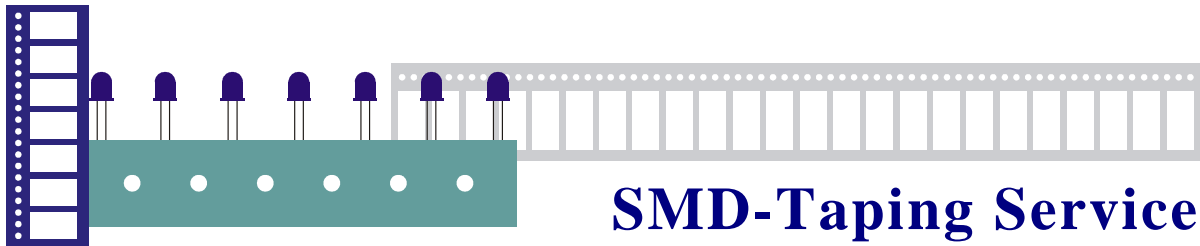
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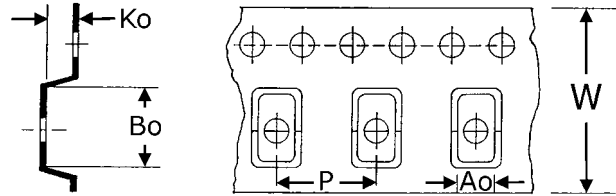


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SHAMSHAD CARRIER TAPE

March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SMD 071 r	16	12	2,90	2,90	6,90		
SMD 072	16	12	8,42	8,42	11,20		
SMD 073	16	12	6,40	6,40	13,00		
SMD 074	24	24	20,00	20,00	3,90		
SMD 075	24	8	4,80	15,22	6,30		
SMD 076	24	8	5,70	13,50	5,50		
SMD 077	24	16	9,60	13,00	5,30		
SMD 078	24	16	9,60	13,00	3,40		
SMD 079	24	12	10,20	11,40	5,50		
SMD 080	24	12	10,40	15,80	5,20		
SMD 081	24	16	11,50	13,20	9,90		
SMD 082	24	16	11,55	13,10	1,40		
SMD 083	24	16	12,10	13,30	0,90		
SMD 084	24	8	3,00	11,80	6,30		
SMD 085	24	12	8,34	8,90	7,45		
SMD 086	24	12	8,34	10,17	7,45		
SMD 087	24	12	5,20	14,10	9,50		
SMD 088	24	16	9,60	13,00	11,00		
SMD 089	24	16	11,00	14,90	7,80		
SMD 090	24	12	6,30	6,30	11,00		
SMD 091	24	16	13,50	17,30	10,90		
SMD 092	32	12	7,10	19,60	2,00		

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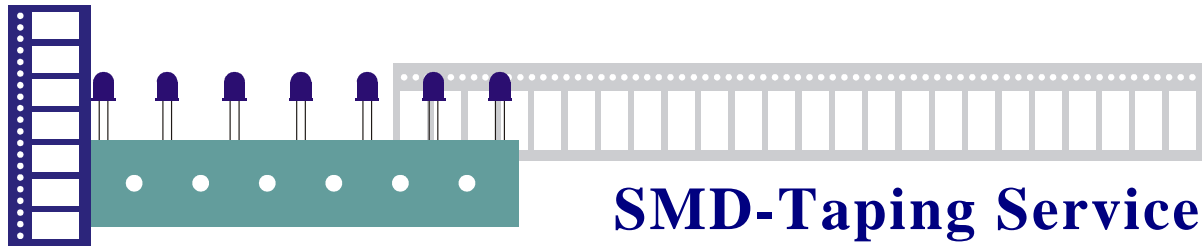
Gerichtsstand
Ansbach

Bankverbindung
Gewerbebank Ansbach
BLZ 765 600 60
Konto Nr. 100 069 094

Ust.-ID. Nr.
DE 154573251

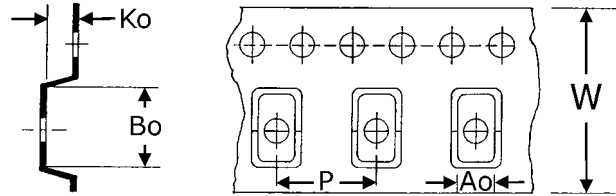


Halle 3
Stand 3-640



SMD-Taping Service

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SHAMSHAD CARRIER TAPE

March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SMD 093	32	16	12,40	21,40	2,10		
SMD 094	32	16	12,40	22,40	2,10		
SMD 095	32	16	12,40	20,40	2,10		
SMD 096	32	16	13,70	20,60	4,85		
SMD 097	32	24	18,34	19,73	5,10		
SMD 098	32	8	5,60	22,0	9,40		
SMD 099	32	20	13,60	13,90	11,90		
SMD 100	32	20	15,30	18,60	7,60		
SMD 101	32	20	15,60	13,90	11,90		
SMD 102	32	12	5,41	18,60	11,30		
SMD 103	32	16	8,00	18,50	12,80		
SMD 104	32	16	12,50	22,70	12,20		
SMD 105	32	20	13,20	22,10	10,80		
SMD 106	32	20	13,30	19,20	13,90		
SMD 107	44	16	11,70	27,80	3,90		
SMD 108	44	24	18,10	29,10	4,80		
SMD 109	44	32	28,00	28,00	2,80		
SMD 110	44	32	30,50	30,50	5,60		
SMD 111	44	44	40,00	21,00	3,90		
SMD 112	44	16	8,90	31,80	11,50		
SMD 113	44	16	11,00	26,20	9,60		
SMD 114	44	24	20,40	23,30	10,35		

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The dimensions are in mm. The tolerances are $\pm 0,1$, except $W = \pm 0,3$. The length is in meters.

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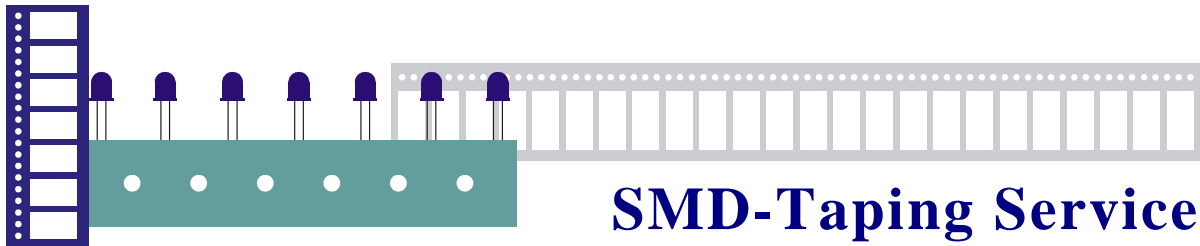
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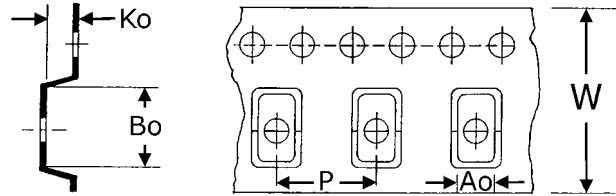


Halle 3
Stand 3-640



SMD-Taping Service

Shamshad Ahmad • B. Sc. Panjab University • M. Sc. Engg. TU-Berlin



SHAMSHAD CARRIER TAPE

March 2001

Package	W	P	Ao	Bo	Ko	K1	Length
SMD 115	44	12	5,41	28,80	11,30		
SMD 116	44	20	20,00	21,55	16,00		
SMD 117	56	16	12,40	45,00	8,60		
SMD 118	56	36	20,15	40,10	3,40		
SMD 119	56	28	22,40	38,40	3,30		
SMD 120	56	36	31,50	40,10	3,40		
SMD 121	56	40	36,90	36,90	4,00		
SMD 122	56	40	37,80	41,60	6,40		
SMD 123	56	44	41,40	44,00	4,70		
SMD 124	56	12	5,41	44,00	11,30		
SMD 125	56	12	7,50	42,00	10,80		
SMD 126	56	16	12,50	43,50	12,20		

The dimensions are in mm. The tolerances are $\pm 0,1$, except $W = \pm 0,3$. The length is in meters.

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