

YSPI 系列功率电感器

■ 特性: *Features*

- 屏蔽性好，可提升整机抗 EMI 特性；
- 具有良好的耐交-直流叠加特性；

■ 应用范围: *Applications*

- 电脑主机板、PC 显卡、VGA 模组；
- DC/DC、DC/AC 转换器；
- 电源产品及音响功放、视频设备、仪器仪表、机顶盒；
- 汽车电子、安防系统及便携式设备等数字电路；
- 其它通用电器。

■ 产品标识: *Product Identification*

$\frac{\text{YSPI}}{(1)} \quad \frac{\square\square\square\square}{(2)} - \frac{\square\square\square}{(3)} \quad \frac{\square}{(4)}$

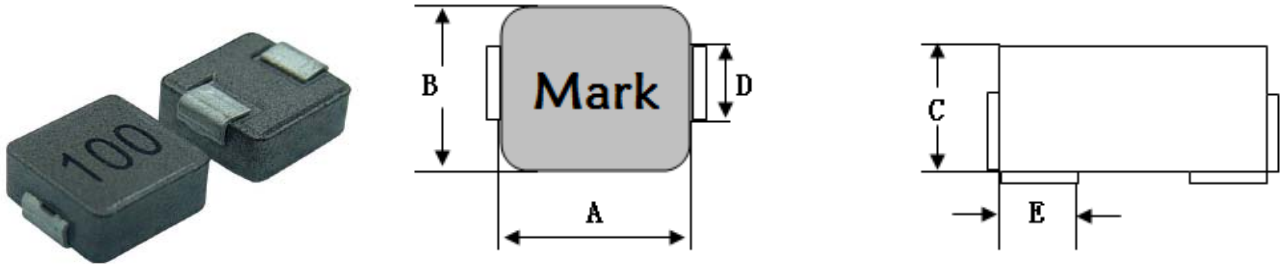
(1): 产品系列号: YSPI 指益嘉源一体成型电感器；

(2): 产品尺寸；

(3): 电感值；

(4): 感值误差: N=±30%, M=±20%；

■ 尺寸(单位: mm)



TYPE	A	B	C	D	E
YSPI0415	4.3 ± 0.5	4.0 ± 0.3	1.5 Max	1.5 ± 0.5	0.8 ± 0.5
YSPI0420	4.3 ± 0.5	4.0 ± 0.3	2.0 Max	1.5 ± 0.5	0.8 ± 0.5
YSPI0515	5.2 ± 0.5	4.7 ± 0.3	1.5 Max	2.0 ± 0.5	1.0 ± 0.5
YSPI0520	5.2 ± 0.5	4.7 ± 0.3	2.0 Max	2.0 ± 0.5	1.0 ± 0.5
YSPI0530	5.2 ± 0.5	4.7 ± 0.3	3.0 Max	2.0 ± 0.5	1.0 ± 0.5
YSPI0550	5.2 ± 0.5	4.7 ± 0.3	5.0 Max	2.0 ± 0.5	1.0 ± 0.5
YSPI0620	6.5 ± 0.5	6.0 ± 0.3	2.0 Max	2.5 ± 0.3	1.3 ± 0.3
YSPI0630	6.5 ± 0.5	6.0 ± 0.3	3.0 Max	2.5 ± 0.3	1.3 ± 0.3
YSPI0640	6.5 ± 0.5	6.0 ± 0.3	4.0 Max	2.5 ± 0.3	1.3 ± 0.3
YSPI0720	7.2 ± 0.3	6.6 ± 0.3	2.0 Max	3.0 ± 0.3	1.6 ± 0.3
YSPI0730	7.2 ± 0.3	6.6 ± 0.3	3.0 Max	3.0 ± 0.3	1.6 ± 0.3
YSPI0750	7.2 ± 0.3	6.6 ± 0.3	5.0 Max	3.0 ± 0.3	1.6 ± 0.3
YSPI0850	7.8 ± 0.5	7.2 ± 0.3	5.0 Max	3.0 ± 0.3	1.6 ± 0.3
YSPI1040	11.5 ± 0.5	10.0 ± 0.5	4.0 Max	3.0 ± 0.5	2.0 ± 0.5
YSPI1045	11.5 ± 0.5	10.0 ± 0.5	4.5 Max	3.0 ± 0.5	2.0 ± 0.5
YSPI1050	11.5 ± 0.5	10.0 ± 0.5	5.0 Max	3.0 ± 0.5	2.0 ± 0.5
YSPI1335	13.5 ± 0.5	12.6 ± 0.5	3.5 Max	4.0 ± 0.5	2.0 ± 0.5
YSPI1350	13.5 ± 0.5	12.6 ± 0.5	5.0 Max	4.0 ± 0.5	2.0 ± 0.5
YSPI1365	13.5 ± 0.5	12.6 ± 0.5	6.5 Max	4.0 ± 0.5	2.0 ± 0.5



Molded SMD Power Inductors

■ *YSPI0415 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0415-R47□	0.47	20	27	5	9
YSPI0415-1R0□	1.0	39	50	4	7
YSPI0415-1R5□	1.5	48	63	4	6
YSPI0415-2R2□	2.2	66	86	3	4
YSPI0415-3R3□	3.3	110	145	2.0	3.5
YSPI0415-4R7□	4.7	197	246	1.5	3

■ *YSPI0420 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0420-R10□	0.10	2.5	3.5	13	22
YSPI0420-R33□	0.33	7.8	8.5	10	18
YSPI0420-R47□	0.47	11.2	14	8	12
YSPI0420-R68□	0.68	16	19	7	10
YSPI0420-1R0□	1.0	22	27	5	8.5
YSPI0420-1R2□	1.2	27	33	5	8
YSPI0420-1R5□	1.5	36	43.5	4.5	7
YSPI0420-2R2□	2.2	51	61	4	6
YSPI0420-3R3□	3.3	69	76	3.5	4
YSPI0420-4R7□	4.7	95	105	2.6	3.5
YSPI0420-6R8□	6.8	150	172	2.1	2.8
YSPI0420-100□	10	215	243	1.8	2.3



Molded SMD Power Inductors

■ *YSPI0515 series*

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0515-1R0□	1.0	31	40	4	6.5
YSPI0515-2R2□	2.2	62	85	3	4.5
YSPI0515-3R3□	3.3	92	120	2.5	3.5
YSPI0515-4R7□	4.7	156	200	2	3

■ *YSPI0520 series*

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0520-R68□	0.68	15	20	7	10
YSPI0520-1R0□	1.0	15	21	6	8
YSPI0520-1R2□	1.2	17	27	5	8
YSPI0520-1R5□	1.5	20	26	4.5	7
YSPI0520-2R2□	2.2	32	42	4	7
YSPI0520-3R3□	3.3	44	58	3.5	5.5
YSPI0520-4R7□	4.7	68	90	3.2	4.5
YSPI0520-5R6□	5.6	75	97	3	4
YSPI0520-100□	10	170	221	2	3

■ *YSPI0530 series*

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0530-R47□	0.47	8.0	14	8	10
YSPI0530-1R0□	1.0	13	18	6	10
YSPI0530-1R5□	1.5	16	19	6	10
YSPI0530-2R2□	2.2	26.5	33	5	7
YSPI0530-3R3□	3.3	42	52	4	7



Molded SMD Power Inductors

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0530-4R7□	4.7	46	60	3	4.5
YSPI0530-5R6□	5.6	62	80	3	4
YSPI0530-6R8□	6.8	78	100	2.5	4
YSPI0530-100□	10	115	150	2	4

■ *YSPI0550 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0550-2R2□	2.2	17.8	23.7	5	8
YSPI0550-6R8□	6.8	58	70	3	5.4
YSPI0550-100□	10	80	103	2.5	4.5
YSPI0550-150□	15	140	180	2	4
YSPI0550-220□	22	180	230	1.5	2.5
YSPI0550-330□	33	345	445	1.5	2
YSPI0550-470□	47	404	527	1	2
YSPI0550-560□	56	456	600	0.8	1

■ *YSPI0620 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0620-1R0□	1.0	14	20	6	8
YSPI0620-1R5□	1.5	20	27	5	7
YSPI0620-2R2□	2.2	27	35	4	6
YSPI0620-3R3□	3.3	49	65	3.5	5
YSPI0620-4R7□	4.7	65	90	3	4.5
YSPI0620-6R8□	6.8	106	139	2.5	4
YSPI0620-100□	10	180	240	2	3.5



Molded SMD Power Inductors

■ *YSPI0630 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0630-R68□	0.68	12	16	11	16
YSPI0630-1R5□	1.5	16	22	9	12
YSPI0630-2R2□	2.2	17	20	8	11
YSPI0630-2R7□	2.7	25	34	6	8
YSPI0630-3R3□	3.3	32	45	5.5	7
YSPI0630-4R7□	4.7	34	45	5.5	7
YSPI0630-5R6□	5.6	54	70	5	7
YSPI0630-6R8□	6.8	63	84	4.5	6
YSPI0630-100□	10	75	100	3	6

■ *YSPI0640 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0640-150□	15	96	120	3	4
YSPI0640-180□	18	120	160	2.5	3
YSPI0640-220□	22	119	150	2.5	3
YSPI0640-470□	47	265	345	1.5	2.5

■ *YSPI0720 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0720-R36□	0.36	6.2	8.2	14	20
YSPI0720-R68□	0.68	10.5	14	8	18
YSPI0720-1R0□	1.0	16	21	7	14
YSPI0720-1R5□	1.5	17	22	7	10
YSPI0720-2R2□	2.2	33	43	5	9



Molded SMD Power Inductors

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0720-3R3□	3.3	44	57	5	8
YSPI0720-4R7□	4.7	70	91	3.5	5.0
YSPI0720-5R6□	5.6	89	118	3.0	4.5
YSPI0720-6R8□	6.8	87	115	2.5	4
YSPI0720-8R2□	8.2	168	217	2.2	3.5
YSPI0720-100□	10	188	224	2	3.5

■ YSPI0730 series

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0730-R10□	0.10	1.5	1.7	32.5	60
YSPI0730-R15□	0.15	1.9	2.5	26	52
YSPI0730-R20□	0.20	2.4	3.0	24	41
YSPI0730-R22□	0.22	2.5	3.9	23	40
YSPI0730-R33□	0.33	3.2	3.9	20	30
YSPI0730-R47□	0.47	3.6	4.7	17.5	26
YSPI0730-R68□	0.68	5.7	7.4	15.5	25
YSPI0730-R82□	0.82	6.7	8	13	24
YSPI0730-1R0□	1.0	7.4	10	11	22
YSPI0730-1R5□	1.5	10.5	13.7	9	18
YSPI0730-2R2□	2.2	12.5	19	8	14
YSPI0730-3R3□	3.3	20	30	6	10
YSPI0730-4R7□	4.7	28	40	5.5	10
YSPI0730-5R6□	5.6	34	45	5.5	8
YSPI0730-6R8□	6.8	40	51	4.5	8
YSPI0730-8R2□	8.2	54	68	4	7
YSPI0730-100□	10	60	80	3	7



Molded SMD Power Inductors

■ *YSPI0750 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0750-R56□	0.56	3.2	4.1	20	26
YSPI0750-R68□	0.68	3.9	4.6	18	26
YSPI0750-R82□	0.82	4.6	5.6	16	22
YSPI0750-1R0□	1.0	6.5	9.0	12	22
YSPI0750-1R5□	1.5	8.5	11	10	18
YSPI0750-2R2□	2.2	10.6	13	9	14
YSPI0750-3R3□	3.3	18	22	6.5	11
YSPI0750-4R7□	4.7	22	28	6	10
YSPI0750-6R8□	6.8	33	42	4.5	9
YSPI0750-100□	10	47	61	5	7
YSPI0750-150□	15	77	95	3	5.5
YSPI0750-220□	22	108	140	2.2	4
YSPI0750-330□	33	160	210	2	4
YSPI0750-470□	47	215	255	2	3

■ *YSPI0850 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0850-2R2□	2.2	10	12	10	15
YSPI0850-3R3□	3.3	15	20	8	12
YSPI0850-4R7□	4.7	17.6	23	7	10.5
YSPI0850-6R8□	6.8	23	30	6	9.5
YSPI0850-8R2□	8.2	35.8	48	6	9
YSPI0850-100□	10	39	50	5.5	7.5
YSPI0850-220□	22	108	140	3	5
YSPI0850-270□	27	140	182	3	5



Molded SMD Power Inductors

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI0850-330□	33	160	200	2.5	4
YSPI0850-470□	47	206	246	2.5	3
YSPI0850-560□	56	240	310	2	3

■ YSPI1040 series

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR(mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1040-R19□	0.19	0.70	0.80	38	60
YSPI1040-R22□	0.22	0.60	0.80	38	50
YSPI1040-R36□	0.36	1.7	2.0	30	50
YSPI1040-R47□	0.47	2.3	3.6	25	40
YSPI1040-R56□	0.56	2.6	3.3	25	33
YSPI1040-R68□	0.68	2.7	3.5	18	30
YSPI1040-1R0□	1.0	3	3.3	18	28
YSPI1040-1R5□	1.5	4.1	5.2	16	25
YSPI1040-2R2□	2.2	6.8	8.5	10	18
YSPI1040-3R3□	3.3	13	17	9	14
YSPI1040-4R7□	4.7	14.5	19	8	14
YSPI1040-6R8□	6.8	25	33	6.5	9
YSPI1040-100□	10	30	36	6	8
YSPI1040-150□	15	56	69	4	6
YSPI1040-220□	22	77	92	3.2	6
YSPI1040-330□	33	136	177	3	5



Molded SMD Power Inductors

■ *YSPI1045 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1045-1R0□	1.0	2.7	3.2	20	32
YSPI1045-2R2□	2.2	5.8	7	14	16
YSPI1045-3R3□	3.3	11	13.5	11	15
YSPI1045-4R7□	4.7	14.3	18	8	14
YSPI1045-5R6□	5.6	16	21	6.5	12
YSPI1045-6R8□	6.8	22.3	29	6.5	10
YSPI1045-220□	22	56	69	4	7
YSPI1045-330□	33	77	92	3	5.5
YSPI1045-470□	47	160	210	3	4

■ *YSPI1050 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1050-R22□	0.22	0.58	0.8	30	55
YSPI1050-R68□	0.68	2.1	3.0	20	40
YSPI1050-1R0□	1.0	2.7	3.2	22	32
YSPI1050-2R2□	2.2	6.6	8.5	10	18
YSPI1050-3R3□	3.3	10.6	13.3	8	16
YSPI1050-4R7□	4.7	13.8	18	8	14
YSPI1050-6R8□	6.8	18.3	23	6.5	12
YSPI1050-100□	10	19.3	25	6	11
YSPI1050-150□	15	39	50	5	8
YSPI1050-220□	22	55	68	4	7
YSPI1050-330□	33	77	92	3	5.5
YSPI1050-470□	47	160	195	3	5
YSPI1050-680□	68	240	288	3	4.5
YSPI1050-101□	100	320	384	2	3



Molded SMD Power Inductors

■ *YSPI1335 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1335-R22□	0.22	0.65	1.0	32	65
YSPI1335-R33□	0.33	0.9	1.3	30	60
YSPI1335-R39□	0.39	1.1	1.5	30	60
YSPI1335-R47□	0.47	1.35	1.7	25	55
YSPI1335-R56□	0.56	1.8	2.5	22	48
YSPI1335-R68□	0.68	1.9	3.0	20	40
YSPI1335-1R0□	1.0	3.3	3.5	18	30
YSPI1335-1R5□	1.5	5.1	5.5	16	25
YSPI1335-2R2□	2.2	7.8	9.5	14	20
YSPI1335-3R3□	3.3	10.2	13	12	18
YSPI1335-4R7□	4.7	17.3	26	11	12
YSPI1335-5R6□	5.6	17.1	18.0	9.5	19
YSPI1335-6R8□	6.8	19.8	22	9	18
YSPI1335-8R2□	8.2	24.8	28.0	8.5	16
YSPI1335-100□	10	30.4	34.0	7	14

■ *YSPI1350 series*

Part Number	L0 Inductance (uH) @100KHZ 1V	DCR (mΩ)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1350-R36□	0.36	0.72	1.7	35	70
YSPI1350-R47□	0.47	1.6	2.5	30	60
YSPI1350-R68□	0.68	2.5	4.0	24	44
YSPI1350-R82□	0.82	2.7	4.5	22	42
YSPI1350-1R0□	1.0	2.8	5.0	20	40
YSPI1350-1R5□	1.5	3.7	8	18	30
YSPI1350-2R2□	2.2	5.2	11	15	25



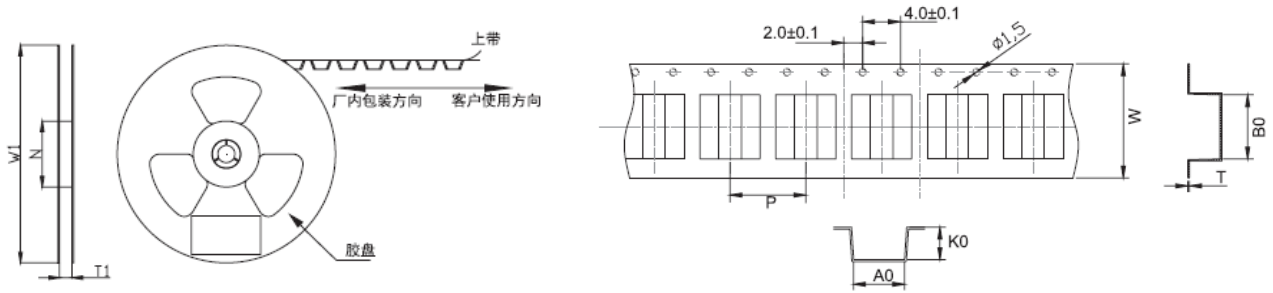
Molded SMD Power Inductors

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR ($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1350-3R3□	3.3	6.9	10	15	20
YSPI1350-4R7□	4.7	10	13	12	18
YSPI1350-6R8□	6.8	13.1	17	11	17
YSPI1350-100□	10	21	28	7	11
YSPI1350-150□	15	32	41	6	9
YSPI1350-220□	22	51	66	4	6
YSPI1350-330□	33	65	84	4	6
YSPI1350-470□	47	85	110	3	5

■ *YSPI1365 series*

Part Number	L0 Inductance (μ H) @100KHZ 1V	DCR ($m\Omega$)		I rms (A)	I sat (A)
		[Typical]	[Max]	[Typical]	[Typical]
YSPI1365-R22□	0.22	0.39	0.7	38	70
YSPI1365-R36□	0.36	0.75	0.9	36	65
YSPI1365-R80□	0.80	0.86	1.2	25	45
YSPI1365-2R2□	2.2	4.7	6.1	17	26
YSPI1365-3R3□	3.3	5.9	7.1	15	27
YSPI1365-5R6□	5.6	9	12	12	24
YSPI1365-7R8□	7.8	13.5	17	10	17
YSPI1365-100□	10	15	18	8	12
YSPI1365-220□	22	33.5	36	6	8
YSPI1365-330□	33	48	57	5	8
YSPI1365-470□	47	57.5	75	5	7
YSPI1365-560□	56	74	95	3	4.5
YSPI1365-680□	68	113	148	3	4.5
YSPI1365-101□	100	175	227	2.5	4
YSPI1365-151□	150	231	280	2	3

产品包装



产品系列	产品	A0	B0	K0	P	W	T	W1	N	T1	MPQ
		$\pm 0.1 \text{ mm}$	$\pm 0.1 \text{ mm}$	$\pm 0.1 \text{ mm}$	$\pm 0.1 \text{ mm}$	$\pm 0.1 \text{ mm}$	$\pm 0.1 \text{ mm}$			$+0.2-0$	Pcs/盘
YSPI0415		4.3	5.1	2.2	8	12	0.3	330	100	12.5	3000
YSPI0420		4.3	5.1	2.2	8	12	0.3	330	100	12.5	3000
YSPI0515		5.1	5.3	2.1	8	12	0.35	330	100	12.5	3000
YSPI0520		5.1	5.3	2.1	8	12	0.35	330	100	12.5	3000
YSPI0530		5.1	5.3	3.2	8	12	0.35	330	100	12.5	2000
YSPI0550		5.1	5.3	5.1	8	12	0.35	330	100	12.5	1500
YSPI0620		6.3	6.8	2.2	12	16	0.35	330	100	16.5	2000
YSPI0630		6.3	6.8	3.2	12	16	0.35	330	100	16.5	1000
YSPI0640		6.3	6.8	4.2	12	16	0.35	330	100	16.5	1000
YSPI0720		7.1	7.3	2.1	12	16	0.4	330	100	16.5	2000
YSPI0730		7.1	7.3	3.2	12	16	0.4	330	100	16.5	1000
YSPI0750		7.1	7.3	5.1	12	16	0.4	330	100	16.5	1000
YSPI0850		7.7	8.2	5.1	12	16	0.4	330	100	16.5	1000
YSPI1040		10.6	11.45	4.2	16	24	0.4	330	100	24.5	1000
YSPI1045		10.6	11.45	4.2	16	24	0.4	330	100	24.5	800
YSPI1050		10.6	11.45	5.1	16	24	0.4	330	100	24.5	800
YSPI1335		12.8	13.7	3.7	20	24	0.5	330	100	24.5	800
YSPI1350		12.8	13.7	5.1	20	24	0.5	330	100	24.5	500
YSPI1365		12.8	13.7	6.7	20	24	0.5	330	100	24.5	500

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