

New Type	Old Type	Dimension (mm)					Reference Dimension (mm)			
		D	H	d	2 α	2 γ	h	h1	R	e
S13-0251820-8.3		25	18	8.3	20°	60°	4.0	2.5	2.0	2.5
S13-0251820-6.2		25	18	6.2	20°	60°	4.0	2.5	5.0	2.5
S13-0261720-7.0		26	17	7.0	20°	60°	2.5	3.0	12.0	1.5
S13-0261720-7.6		26	17	7.6	20°	60°	2.5	3.0	10.0	1.5
S13-0261720-7.3		26	17	7.3	20°	60°	2.5	2.4	12.0	1.0
S13-0261720-9.0		26	17	9.0	20°	60°	2.5	3.0	12.0	1.5
S13-0261720-9.3		26	17	9.3	20°	60°	2.5	2.4	12.0	1.0
S13-0261720-9.6		26	17	9.6	20°	60°	2.5	2.4	12.0	1.0
S13-0281820-5.7	S13-5.7-28H	28	18	5.7	20°	60°	2.5	3.0	9.0	1.2
S13-0281820-6.0		28	18	6.0	20°	60°	2.5	3.0	9.0	1.2
S13-0281820-6.3		28	18	6.3	20°	60°	2.5	3.0	9.0	1.2
S13-0281820-6.6		28	18	6.6	20°	60°	2.5	3.0	8.5	1.2
S13-0281820-7.0		28	18	7.0	20°	60°	2.5	3.0	8.5	1.2
S13-0281820-7.3		28	18	7.3	20°	60°	2.5	3.0	8.5	1.2
S13-0282020-4.7	LS13-4.7	28	20	4.7	20°	60°	2.5	3.0	7.0	1.2
S13-0282210-4.8	LS13-4.8A	28	22	4.8	10°	60°	2.0	3.5	6.0	1.2
S13-0282020-5.0		28	20	5.0	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-5.2	XS13-5.2-28F	28	20	5.2	20°	60°	2.5	3.0	7.0	1.2
S13-0282210-5.2	LS13-5.2A	28	22	5.2	10°	60°	2.2	3.5	6.0	1.2
S13-0282020-5.4	S13-5.4-28	28	20	5.4	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-5.7	LS13-5.7A	28	20	5.7	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-6.0		28	20	6.0	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-6.2	LS13-6.2-28F	28	20	6.2	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-6.5	S13-6.5-28	28	20	6.5	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-6.7	LS13-6.7A	28	20	6.7	20°	60°	2.5	3.0	7.0	1.2
S13-0282020-7.0	LS13-7.0-28AB	28	20	7.0	20°	60°	3.5	2.5	8.0	1.2
S13-0282020-7.3		28	20	7.3	20°	60°	3.0	3.0	7.0	1.2
S13-0282020-7.7	LS13-7.7-28	28	20	7.7	20°	60°	3.5	3.0	7.0	1.2
S13-0282020-8.5	LS13-8.5-28AB	28	20	8.5	20°	60°	4.5	2.5	10.0	1.2
S13-0282026-8.5	LS13-8.5-28AB	28	20	8.5	26°	60°	4.5	2.5	10.0	1.2
S13-0282020-8.6	LS13-8.6-28	28	20	8.6	20°	60°	3.5	3.0	7.0	1.2
S13-0282020-9.9	LS13-9.9-28AB	28	20	9.9	20°	60°	5.0	2.5	9.5	1.2
S13-0282028-9.9	LS13-9.9-28AB	28	20	9.9	28°	60°	5.0	2.5	9.5	1.2
S13-0282020-9.6	LS13-9.6-28	28	20	9.6	20°	60°	4.0	3.0	7.0	1.2
S13-0302120-5.4	LS13-5.4	30	21	5.4	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-5.7	LS13-5.7	30	21	5.7	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-6.0	LS13-6.0	30	21	6.0	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-6.2	S13-6.2	30	21	6.2	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-6.5	LS13-6.5	30	21	6.5	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-6.7	LS13-6.7	30	21	6.7	20°	60°	2.5	3.0	7.0	1.2

S13-0302120-7.0	LS13-7.0	30	21	7.0	20°	60°	2.5	3.0	7.0	1.2
S13-0302120-7.3	LS13-7.3	30	21	7.3	20°	60°	3.5	3.0	7.0	1.2
S13-0302120-7.7	LS13-7.7	30	21	7.7	20°	60°	3.5	3.0	7.0	1.2
S13-0302120-8.1	LS13-8.1	30	21	8.1	20°	60°	3.5	3.0	7.0	1.2
S13-0302120-8.6	LS13-8.6	30	21	8.6	20°	60°	3.5	3.0	7.0	1.2
S13-0302120-9.0	LS13-9.0	30	21	9.0	20°	60°	4.0	3.0	7.0	1.2
S13-0302116-9.1	13-9.1	30	21	9.1	16°	60°	3.0	3.0	7.0	1.5
S13-0302120-9.6	LS13-9.6	30	21	9.6	20°	60°	4.0	3.0	7.0	1.2
S13-0302118-10.0	S13-10	30	21	10.0	18°	60°	3.5	3.0	7.0	1.5
S13-0302116-10.1	13-10.1	30	21	10.1	16°	60°	3.5	3.0	7.0	1.5
S13-0352420-6.7	LS13-6.7-35	35	24	6.7	20°	60°	5.0	4.0	7.0	1.5
S13-0352420-9.6	LS13-9.6-35	35	24	9.6	20°	60°	5.0	4.0	7.0	1.5
S13-0352420-10.0	LS13-10-35F	35	24	10.0	20°	60°	5.0	4.0	7.0	1.5
S13-0352420-11.5	LS13-11-35F	35	24	11.5	20°	60°	5.0	4.0	7.0	1.5
S13-0352420-12.5	LS13-12-35F	35	24	12.5	20°	60°	5.0	4.0	7.0	1.5
S13-0382420-10.5	LS13-10-38	38	24	10.5	20°	60°	4.0	4.0	7.0	1.5
S13-0382421-10.5	LS13-10-38AB	38	24	10.5	21°	60°	4.0	4.0	14.0	1.5
S13-0382423-10.5	LS13-10.5-38AB	38	24	10.5	23°	60°	5.0	3.5	11.0	1.5
S13-0382420-11.5	LS13-11-38	38	24	11.5	20°	60°	4.0	4.0	7.0	1.5
S13-0382421-11.5	LS13-11-38AB	38	24	11.5	21°	60°	4.0	4.0	14.0	1.5
S13-0382423-11.5	LS13-11.5-38AB	38	24	11.5	23°	60°	5.0	3.5	14.0	1.5
S13-0382428-11.9	LS13-11.9-38AB	38	24	11.9	28°	60°	5.5	3.5	14.0	1.5
S13-0382420-12.5	LS13-12-38	38	24	12.5	20°	60°	4.0	4.0	7.0	1.5
S13-0382421-12.5	LS13-12-38AB	38	24	12.5	21°	60°	4.0	4.0	9.5	1.5
S13-0382423-12.5	LS13-12.5-38AB	38	24	12.5	23°	60°	5.0	3.5	14.0	1.5
S13-0382420-13.5	LS13-13-38	38	24	13.5	20°	60°	4.5	4.0	7.0	1.5
S13-0382421-13.5	LS13-13-38AB	38	24	13.5	21°	60°	4.0	4.0	14.0	1.5
S13-0382423-13.5	LS13-13.5-38AB	38	24	13.5	23°	60°	5.0	3.5	14.0	1.5
S13-0382420-14.5	LS13-14-38F	38	24	14.5	20°	60°	5.0	4.0	7.0	1.5
S13-0382421-14.5	LS13-14-38AB	38	24	14.5	21°	60°	4.0	4.0	14.0	1.5
S13-0382423-14.5	LS13-14.5-38AB	38	24	14.5	23°	60°	5.0	3.5	11.0	1.5
S13-0382420-15.5	LS13-15-38	38	24	15.5	20°	60°	4.5	4.0	7.0	1.5
S13-0382421-15.5	LS13-15-38AB	38	24	15.5	21°	60°	4.0	4.0	14.0	1.5
S13-0382423-15.5	LS13-15.5-38AB	38	24	15.5	23°	60°	5.0	3.5	14.0	1.5
S13-0402520-10.0	LS13-10-40A	40	25	10.0	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-10.5	LS13-10	40	25	10.5	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-11.5	LS13-11	40	25	11.5	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-12.0	S13-12A	40	25	12.0	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-12.5	LS13-12	40	25	12.5	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-13.5	LS13-13	40	25	13.5	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-14.0	S13-14A	40	25	14.0	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-14.5	LS13-14	40	25	14.5	20°	60°	5.0	4.0	7.0	1.5
S13-0402520-15.5	LS13-15	40	25	15.5	20°	60°	5.0	4.0	7.0	1.5

S13-0482720-16.5	LS13-16-48F	48	27	16.5	20°	60°	5.5	4.5	7.0	1.5
S13-0482721-16.5	LS13-16-48AB	48	27	16.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482723-16.5	LS13-16.5-48AB	48	27	16.5	23°	60°	6.0	4.0	14.0	1.5
S13-0482720-17.5	LS13-17-48F	48	27	17.5	20°	60°	5.5	4.5	7.0	1.5
S13-0482721-17.5	LS13-17-48AB	48	27	17.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482723-17.5	LS13-17.5-48AB	48	27	17.5	23°	60°	6.0	4.0	14.0	1.5
S13-0482720-18.5	LS13-18-48F	48	27	18.5	20°	60°	5.5	4.5	7.0	1.5
S13-0482721-18.5	LS13-18-48AB	48	27	18.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482723-18.5	LS13-18.5-48AB	48	27	18.5	23°	60°	6.0	4.0	14.0	1.5
S13-0482720-19.5	LS13-19-48F	48	27	19.5	20°	60°	5.5	4.5	7.0	1.5
S13-0482721-19.5	LS13-19-48AB	48	27	19.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482723-19.5	LS13-19.5-48AB	48	27	19.5	23°	60°	6.0	4.0	14.0	1.5
S13-0482720-20.5	LS13-20-48F	48	27	20.5	20°	60°	6.0	4.5	7.0	1.5
S13-0482721-20.5	LS13-20-48AB	48	27	20.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482723-20.5	LS13-20.5-48AB	48	27	20.5	23°	60°	6.0	4.0	14.0	1.5
S13-0482720-21.5	LS13-21-48F	48	27	21.5	20°	60°	6.0	4.5	7.0	1.5
S13-0482721-21.5	LS13-21-48AB	48	27	21.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482721-22.5	LS13-22-48AB	48	27	22.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482721-23.5	LS13-23-48AB	48	27	23.5	21°	60°	5.0	4.5	14.0	1.5
S13-0482721-24.5	LS13-24-48AB	48	27	24.5	21°	60°	5.0	4.5	14.0	1.5
S13-0492723-21.5	LS13-21.5-50AB	49	27	21.5	23°	60°	6.0	4.0	14.0	1.5
S13-0492723-22.5	LS13-22.5-50AB	49	27	22.5	23°	60°	6.0	4.0	14.0	1.5
S13-0492723-23.5	LS13-23-50AB	49	27	23.5	23°	60°	6.0	4.0	14.0	1.5
S13-0492723-24.5	LS13-24.5-50AB	49	27	24.5	23°	60°	6.0	4.0	14.0	1.5
S13-0502820-16.5	LS13-16	50	28	16.5	20°	60°	5.5	4.5	7.0	1.5
S13-0502820-17.5	LS13-17	50	28	17.5	20°	60°	5.5	4.5	7.0	1.5
S13-0502820-18.5	LS13-18	50	28	18.5	20°	60°	5.5	4.5	7.0	1.5
S13-0502820-19.5	LS13-19	50	28	19.5	20°	60°	5.5	4.5	7.0	1.5
S13-0502820-20.5	LS13-20	50	28	20.5	20°	60°	6.0	4.5	7.0	1.5
S13-0502820-21.5	LS13-21	50	28	21.5	20°	60°	6.0	4.5	7.0	1.5
S13-0502820-22.5	LS13-22	50	28	22.5	20°	60°	6.0	4.5	7.0	1.5
S13-0502820-23.5	LS13-23	50	28	23.5	20°	60°	6.0	4.5	7.0	1.5
S13-0502820-24.5	LS13-24	50	28	24.5	20°	60°	6.0	4.5	7.0	1.5
S13-0603520-25.5	LS13-25	60	35	25.5	20°	60°	7.0	6.0	8.0	1.5
S13-0603221-25.5	LS13-25AB	60	32	25.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-26.5	LS13-26	60	35	26.5	20°	60°	7.0	6.0	8.0	1.5
S13-0603221-26.5	LS13-26AB	60	32	26.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-27.5	LS13-27	60	35	27.5	20°	60°	7.0	6.0	8.0	1.5
S13-0603221-27.5	LS13-27AB	60	32	27.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-28.5	LS13-28	60	35	28.5	20°	60°	7.0	6.0	8.0	1.5
S13-0603221-28.5	LS13-28AB	60	32	28.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-29.5	LS13-29	60	35	29.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-29.5	LS13-29AB	60	32	29.5	21°	60°	7.0	5.0	14.0	1.5

S13-0603520-30.5	LS13-30	60	35	30.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-30.5	LS13-30AB	60	32	30.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-31.5	LS13-31	60	35	31.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-31.5	LS13-31AB	60	32	31.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-32.5	LS13-32	60	35	32.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-32.5	LS13-32AB	60	32	32.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-33.5	LS13-33	60	35	33.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-33.5	LS13-33AB	60	32	33.5	21°	60°	7.0	5.0	14.0	1.5
S13-0603520-34.5	LS13-34	60	35	34.5	20°	60°	7.5	6.0	8.0	1.5
S13-0603221-34.5	LS13-34AB	60	32	34.5	21°	60°	7.0	5.0	14.0	1.5
S13-0753520-35.5	LS13-35	75	35	35.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-36.5	LS13-36	75	35	36.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-37.5	LS13-37	75	35	37.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-38.5	LS13-38	75	35	38.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-39.5	LS13-39	75	35	39.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-40.5	LS13-40	75	35	40.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-41.5	LS13-41	75	35	41.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-42.5	LS13-42	75	35	42.5	20°	60°	8.0	6.0	8.0	1.5
S13-0753520-43.5	LS13-43	75	35	43.5	20°	60°	8.0	6.0	8.0	1.5
S13-0803520-43.5	LS13-43-80	80	35	43.5	20°	60°	7.0	5.5	8.0	1.5
S13-0853520-43.5	LS13-43-85	85	35	43.5	20°	60°	7.0	6.0	8.0	1.5
S13-0903520-45.0	LS13-45	90	35	45.0	20°	60°	9.0	6.0	8.0	2.0
S13-0903520-47.0	LS13-47	90	35	47.0	20°	60°	9.0	6.0	8.0	1.5
S13-0903520-49.0	LS13-49	90	35	49.0	20°	60°	9.0	6.0	8.0	1.5
S13-0903520-51.0	LS13-51	90	35	51.0	20°	60°	9.0	6.0	8.0	1.5
S13-0903520-53.0	LS13-53	90	35	53.0	20°	60°	9.0	6.0	8.0	2.0
S13-0903520-55.0	LS13-55	90	35	55.0	20°	60°	9.0	6.0	8.0	2.0
S13-0903520-57.0	LS13-57	90	35	57.0	20°	60°	9.0	6.0	8.0	2.0
S13-0903520-58.0		90	35	58.0	20°	60°	10.0	6.0	8.0	2.0
S13-0953520-53.0	S13-53	95	35	53.0	20°	60°	8.5	6.0	8.0	1.5
S13-0953520-54.0		95	35	54.0	20°	60°	8.5	6.0	8.0	1.5
S13-0953520-55.0	S13-55	95	35	55.0	20°	60°	8.5	6.0	8.0	1.5
S13-0953520-56.0		95	35	56.0	20°	60°	8.5	6.0	8.0	1.5
S13-0953520-57.0	S13-57	95	35	57.0	20°	60°	8.5	6.0	8.0	1.5
S13-1104020-53.0	LS13-53-110	110	40	53.0	20°	60°	9.0	6.0	8.0	1.5
S13-1104020-59.0	LS13-59	110	40	59.0	20°	60°	10.0	6.0	8.0	2.0
S13-1104020-61.0	LS13-61	110	40	61.0	20°	60°	10.0	6.0	8.0	2.0
S13-1104020-64.0	LS13-64	110	40	64.0	20°	60°	11.0	6.0	8.0	2.0
S13-1104020-67.0	LS13-67	110	40	67.0	20°	60°	11.0	6.0	8.0	2.0
S13-1104020-69.0	LS13-69	110	40	69.0	20°	60°	11.0	6.0	8.0	2.0
S13-1204520-65.0	LS13-65-120	120	45	65.0	20°	60°	11.0	6.0	8.0	2.0
S13-1405020-71.0	LS13-71	140	50	71.0	20°	60°	12.0	6.0	8.0	2.0
S13-1405020-74.0	LS13-74	140	50	74.0	20°	60°	12.0	6.0	8.0	2.0

S13-1405020-77.0	LS13-77	140	50	77.0	20°	60°	12.0	6.0	8.0	2.0
S13-1405020-81.0	LS13-81	140	50	81.0	20°	60°	12.0	6.0	8.0	2.0
S13-1405020-84.0	LS13-84	140	50	84.0	20°	60°	12.0	6.0	8.0	2.0
S13-1505020-80.0	LS13-80	150	50	80.0	20°	60°	12.0	6.0	8.0	2.0
S13-1505020-86.2	LS13-86.2	150	45	86.2	20°	60°	12.0	6.0	8.0	2.0
S13-1604520-92.6		160	45	92.5	20°	60°	12.0	6.0	8.0	2.0