

Surge-protective Devices Certified for Canada - Component

COMPANY

YAGEO CORP

3Rd Fl, #233-1
 Baoqiao Rd
 Xindian
 New Taipei, 231 Taiwan

E504762

Cat. No.	SPD Type	Volts (V)	AC/DC/ DC PV	PH	AMPS (A)	AMB Min (°C)	AMB Max (°C)	MODE	VPR (Vpk)	MLV (Vpk)	MCOV (V)	Vn (Vdc)	In (kA)	SCCR (kA)	Notes
Investigated to CSA C22.2 No. 269															
HF1.5-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
Investigated to Other than CSA-C22.2 No. 269															
SM#J10	5	10	DC	-	N/A	-40	85	Ld-Ld	-	10	10	N/A	0.01	N/A	1
SM#J100(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	120	100	N/A	0.01	N/A	1
SM#J11(!)	5	11	DC	-	N/A	-40	85	Ld-Ld	-	10	11	N/A	0.01	N/A	1
SM#J110(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	130	100	N/A	0.01	N/A	1
SM#J12(!)	5	12	DC	-	N/A	-40	85	Ld-Ld	-	10	12	N/A	0.01	N/A	1
SM#J120(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	150	100	N/A	0.01	N/A	1
SM#J13(!)	5	13	DC	-	N/A	-40	85	Ld-Ld	-	10	13	N/A	0.01	N/A	1
SM#J130(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	160	100	N/A	0.01	N/A	1
SM#J14(!)	5	14	DC	-	N/A	-40	85	Ld-Ld	-	20	14	N/A	0.01	N/A	1

SM#J15(!)	5	15	DC	-	N/A	-40	85	Ld-Ld	-	20	15	N/A	0.01	N/A	1
SM#J150(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	180	100	N/A	0.01	N/A	1
SM#J16(!)	5	16	DC	-	N/A	-40	85	Ld-Ld	-	20	16	N/A	0.01	N/A	1
SM#J160(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	200	100	N/A	0.01	N/A	1
SM#J17(!)	5	17	DC	-	N/A	-40	85	Ld-Ld	-	20	17	N/A	0.01	N/A	1
SM#J170(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	210	100	N/A	0.01	N/A	1
SM#J18(!)	5	18	DC	-	N/A	-40	85	Ld-Ld	-	20	18	N/A	0.01	N/A	1
SM#J180(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	230	100	N/A	0.01	N/A	1
SM#J190(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	240	100	N/A	0.01	N/A	1
SM#J20(!)	5	20	DC	-	N/A	-40	85	Ld-Ld	-	30	20	N/A	0.01	N/A	1
SM#J200(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	250	100	N/A	0.01	N/A	1
SM#J210(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	270	100	N/A	0.01	N/A	1
SM#J22(!)	5	22	DC	-	N/A	-40	85	Ld-Ld	-	30	22	N/A	0.01	N/A	1
SM#J220(!)	5	100	DC	-	N/A	-40	85	Ld-Ld	-	280	100	N/A	0.01	N/A	1
SM#J24(!)	5	24	DC	-	N/A	-40	85	Ld-Ld	-	30	24	N/A	0.01	N/A	1
SM#J26(!)	5	26	DC	-	N/A	-40	85	Ld-Ld	-	30	26	N/A	0.01	N/A	1
SM#J28(!)	5	28	DC	-	N/A	-40	85	Ld-Ld	-	40	28	N/A	0.01	N/A	1
SM#J30(!)	5	30	DC	-	N/A	-40	85	Ld-Ld	-	40	30	N/A	0.01	N/A	1
SM#J33(!)	5	33	DC	-	N/A	-40	85	Ld-Ld	-	40	33	N/A	0.01	N/A	1
SM#J36(!)	5	36	DC	-	N/A	-40	85	Ld-Ld	-	50	36	N/A	0.01	N/A	1
SM#J40(!)	5	40	DC	-	N/A	-40	85	Ld-Ld	-	50	40	N/A	0.01	N/A	1
SM#J43(!)	5	43	DC	-	N/A	-40	85	Ld-Ld	-	50	43	N/A	0.01	N/A	1
SM#J45(!)	5	45	DC	-	N/A	-40	85	Ld-Ld	-	60	45	N/A	0.01	N/A	1

SM#J48(!)	5	48	DC	-	N/A	-40	85	Ld-Ld	-	60	48	N/A	0.01	N/A	1
SM#J5.0(!)	5	5	DC	-	N/A	-40	85	Ld-Ld	-	10	5	N/A	0.01	N/A	1
SM#J51(!)	5	51	DC	-	N/A	-40	85	Ld-Ld	-	70	51	N/A	0.01	N/A	1
SM#J54(!)	5	54	DC	-	N/A	-40	85	Ld-Ld	-	70	54	N/A	0.01	N/A	1
SM#J58(!)	5	58	DC	-	N/A	-40	85	Ld-Ld	-	70	58	N/A	0.01	N/A	1
SM#J6.0(!)	5	6	DC	-	N/A	-40	85	Ld-Ld	-	10	6	N/A	0.01	N/A	1
SM#J6.5(!)	5	6.5	DC	-	N/A	-40	85	Ld-Ld	-	10	6.5	N/A	0.01	N/A	1
SM#J60(!)	5	60	DC	-	N/A	-40	85	Ld-Ld	-	80	60	N/A	0.01	N/A	1
SM#J64(!)	5	64	DC	-	N/A	-40	85	Ld-Ld	-	80	64	N/A	0.01	N/A	1
SM#J7.0(!)	5	7	DC	-	N/A	-40	85	Ld-Ld	-	10	7	N/A	0.01	N/A	1
SM#J7.5(!)	5	7.5	DC	-	N/A	-40	85	Ld-Ld	-	10	7.5	N/A	0.01	N/A	1
SM#J70(!)	5	70	DC	-	N/A	-40	85	Ld-Ld	-	90	70	N/A	0.01	N/A	1
SM#J75(!)	5	75	DC	-	N/A	-40	85	Ld-Ld	-	90	75	N/A	0.01	N/A	1
SM#J78(!)	5	78	DC	-	N/A	-40	85	Ld-Ld	-	100	78	N/A	0.01	N/A	1
SM#J8.0(!)	5	8	DC	-	N/A	-40	85	Ld-Ld	-	10	8	N/A	0.01	N/A	1
SM#J8.5(!)	5	8.5	DC	-	N/A	-40	85	Ld-Ld	-	10	8.5	N/A	0.01	N/A	1
SM#J85(!)	5	85	DC	-	N/A	-40	85	Ld-Ld	-	100	85	N/A	0.01	N/A	1
SM#J9.0(!)	5	9	DC	-	N/A	-40	85	Ld-Ld	-	10	9	N/A	0.01	N/A	1
SM#J90(!)	5	90	DC	-	N/A	-40	85	Ld-Ld	-	110	90	N/A	0.01	N/A	1
Investigated to CSA C22.2 No. 269															
2R(&)2000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3510	500	N/A	3	N/A	1, 3
2R(&)2000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3510	500	N/A	3	N/A	1, 3
2R(&)2500L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3670	500	N/A	3	N/A	1, 3

2R(&)2500M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3670	500	N/A	3	N/A	1, 3
2R(&)2700L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3860	500	N/A	3	N/A	1, 3
2R(&)2700M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3860	500	N/A	3	N/A	1, 3
2R(&)3000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3900	500	N/A	3	N/A	1, 3
2R(&)3000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3900	500	N/A	3	N/A	1, 3
2R(&)3500L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4150	500	N/A	3	N/A	1, 3
2R(&)3500M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4150	500	N/A	3	N/A	1, 3
2R(&)3600L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4410	500	N/A	3	N/A	1, 3
2R(&)3600M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4410	500	N/A	3	N/A	1, 3
2R(&)4000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4600	500	N/A	3	N/A	1, 3
2R(&)4000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4600	500	N/A	3	N/A	1, 3
2R(&)5000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	7950	500	N/A	3	N/A	1, 3
2R(&)5000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	7950	500	N/A	3	N/A	1, 3
2R(&)6000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	9200	500	N/A	3	N/A	1, 3
2R(&)6000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	9200	500	N/A	3	N/A	1, 3
2R(@)1400L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	2600	500	N/A	5	N/A	1, 3
2R(@)1400M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	2600	500	N/A	5	N/A	1, 3
2R(@)1600L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	2730	500	N/A	5	N/A	1, 3
2R(@)1600M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	2730	500	N/A	5	N/A	1, 3
2R(@)2000L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3370	500	N/A	5	N/A	1, 3
2R(@)2000M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	3370	500	N/A	5	N/A	1, 3
2R(@)2500L-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4130	500	N/A	5	N/A	1, 3
2R(@)2500M-	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4130	500	N/A	5	N/A	1, 3

AT#(1)1000/HF#(1)1000	5	707	AC	1	N/A	-40	85	Ld-Ld	-	1280	707	N/A	0.5	N/A	1
AT#(1)110/HF#(1)110	5	78	AC	1	N/A	-40	85	Ld-Ld	-	310	78	N/A	3	N/A	1
AT#(1)1100/HF#(1)1100	5	785	AC	1	N/A	-40	85	Ld-Ld	-	1390	785	N/A	0.5	N/A	1
AT#(1)12/HF#(1)12	5	8	AC	1	N/A	-40	85	Ld-Ld	-	70	8	N/A	5	N/A	1
AT#(1)120/HF#(1)120	5	85	AC	1	N/A	-40	85	Ld-Ld	-	320	85	N/A	3	N/A	1
AT#(1)1200/HF#(1)1200	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1490	849	N/A	0.5	N/A	1
AT#(1)130/HF#(1)130	5	92	AC	1	N/A	-40	85	Ld-Ld	-	340	92	N/A	3	N/A	1
AT#(1)133/HF#(1)133	5	94	AC	1	N/A	-40	85	Ld-Ld	-	340	94	N/A	3	N/A	1
AT#(1)15/HF#(1)15	5	10	AC	1	N/A	-40	85	Ld-Ld	-	100	10	N/A	5	N/A	1
AT#(1)150/HF#(1)150	5	106	AC	1	N/A	-40	85	Ld-Ld	-	360	106	N/A	3	N/A	1
AT#(1)16/HF#(1)16	5	11	AC	1	N/A	-40	85	Ld-Ld	-	110	11	N/A	5	N/A	1
AT#(1)160/HF#(1)160	5	113	AC	1	N/A	-40	85	Ld-Ld	-	380	113	N/A	3	N/A	1
AT#(1)170/HF#(1)170	5	120	AC	1	N/A	-40	85	Ld-Ld	-	390	120	N/A	3	N/A	1
AT#(1)18/HF#(1)18	5	13	AC	1	N/A	-40	85	Ld-Ld	-	190	13	N/A	3	N/A	1
AT#(1)180/HF#(1)180	5	127	AC	1	N/A	-40	85	Ld-Ld	-	400	127	N/A	3	N/A	1
AT#(1)190/HF#(1)190	5	134	AC	1	N/A	-40	85	Ld-Ld	-	330	134	N/A	3	N/A	1
AT#(1)20/HF#(1)20	5	14	AC	1	N/A	-40	85	Ld-Ld	-	190	14	N/A	3	N/A	1
AT#(1)22/HF#(1)22	5	16	AC	1	N/A	-40	85	Ld-Ld	-	200	16	N/A	3	N/A	1
AT#(1)220/HF#(1)220	5	156	AC	1	N/A	-40	85	Ld-Ld	-	340	156	N/A	3	N/A	1
AT#(1)24/HF#(1)24	5	17	AC	1	N/A	-40	85	Ld-Ld	-	200	17	N/A	3	N/A	1
AT#(1)240/HF#(1)240	5	170	AC	1	N/A	-40	85	Ld-Ld	-	350	170	N/A	3	N/A	1
AT#(1)25/HF#(1)25	5	17	AC	1	N/A	-40	85	Ld-Ld	-	200	17	N/A	3	N/A	1
AT#(1)26/HF#(1)26	5	18	AC	1	N/A	-40	85	Ld-Ld	-	200	18	N/A	3	N/A	1

AT#(1)275/HF#(1)275	5	194	AC	1	N/A	-40	85	Ld-Ld	-	400	194	N/A	3	N/A	1
AT#(1)28/HF#(1)28	5	20	AC	1	N/A	-40	85	Ld-Ld	-	200	20	N/A	3	N/A	1
AT#(1)30/HF#(1)30	5	21	AC	1	N/A	-40	85	Ld-Ld	-	210	21	N/A	3	N/A	1
AT#(1)300/HF#(1)300	5	212	AC	1	N/A	-40	85	Ld-Ld	-	430	212	N/A	3	N/A	1
AT#(1)33/HF#(1)33	5	23	AC	1	N/A	-40	85	Ld-Ld	-	210	23	N/A	3	N/A	1
AT#(1)350/HF#(1)350	5	248	AC	1	N/A	-40	85	Ld-Ld	-	500	248	N/A	3	N/A	1
AT#(1)36/HF#(1)36	5	25	AC	1	N/A	-40	85	Ld-Ld	-	210	25	N/A	3	N/A	1
AT#(1)380/HF#(1)380	5	275	AC	1	N/A	-40	85	Ld-Ld	-	550	275	N/A	3	N/A	1
AT#(1)39/HF#(1)39	5	27	AC	1	N/A	-40	85	Ld-Ld	-	220	27	N/A	3	N/A	1
AT#(1)40/HF#(1)40	5	28	AC	1	N/A	-40	85	Ld-Ld	-	220	28	N/A	3	N/A	1
AT#(1)400/HF#(1)400	5	283	AC	1	N/A	-40	85	Ld-Ld	-	570	283	N/A	3	N/A	1
AT#(1)42/HF#(1)42	5	30	AC	1	N/A	-40	85	Ld-Ld	-	220	30	N/A	3	N/A	1
AT#(1)43/HF#(1)43	5	30	AC	1	N/A	-40	85	Ld-Ld	-	220	30	N/A	3	N/A	1
AT#(1)430/HF#(1)430	5	304	AC	1	N/A	-40	85	Ld-Ld	-	590	304	N/A	3	N/A	1
AT#(1)45/HF#(1)45	5	32	AC	1	N/A	-40	85	Ld-Ld	-	220	32	N/A	3	N/A	1
AT#(1)460/HF#(1)460	5	325	AC	1	N/A	-40	85	Ld-Ld	-	660	325	N/A	2	N/A	1
AT#(1)48/HF#(1)48	5	34	AC	1	N/A	-40	85	Ld-Ld	-	230	34	N/A	3	N/A	1
AT#(1)500/HF#(1)500	5	354	AC	1	N/A	-40	85	Ld-Ld	-	710	354	N/A	2	N/A	1
AT#(1)51/HF#(1)51	5	36	AC	1	N/A	-40	85	Ld-Ld	-	230	36	N/A	3	N/A	1
AT#(1)54/HF#(1)54	5	38	AC	1	N/A	-40	85	Ld-Ld	-	230	38	N/A	3	N/A	1
AT#(1)550/HF#(1)550	5	389	AC	1	N/A	-40	85	Ld-Ld	-	770	389	N/A	2	N/A	1
AT#(1)58/HF#(1)58	5	41	AC	1	N/A	-40	85	Ld-Ld	-	240	41	N/A	3	N/A	1
AT#(1)60/HF#(1)60	5	42	AC	1	N/A	-40	85	Ld-Ld	-	240	42	N/A	3	N/A	1

AT#(1)600/HF#(1)600	5	424	AC	1	N/A	-40	85	Ld-Ld	-	840	424	N/A	2	N/A	1
AT#(1)650/HF#(1)650	5	460	AC	1	N/A	-40	85	Ld-Ld	-	900	460	N/A	2	N/A	1
AT#(1)66/HF#(1)66	5	47	AC	1	N/A	-40	85	Ld-Ld	-	260	47	N/A	3	N/A	1
AT#(1)70/HF#(1)70	5	50	AC	1	N/A	-40	85	Ld-Ld	-	270	50	N/A	3	N/A	1
AT#(1)700/HF#(1)700	5	495	AC	1	N/A	-40	85	Ld-Ld	-	980	495	N/A	0.5	N/A	1
AT#(1)750/HF#(1)750	5	530	AC	1	N/A	-40	85	Ld-Ld	-	1000	530	N/A	0.5	N/A	1
AT#(1)76/HF#(1)76	5	53	AC	1	N/A	-40	85	Ld-Ld	-	270	53	N/A	3	N/A	1
AT#(1)78/HF#(1)78	5	55	AC	1	N/A	-40	85	Ld-Ld	-	270	55	N/A	3	N/A	1
AT#(1)800/HF#(1)800	5	566	AC	1	N/A	-40	85	Ld-Ld	-	1020	566	N/A	0.5	N/A	1
AT#(1)85/HF#(1)85	5	60	AC	1	N/A	-40	85	Ld-Ld	-	280	60	N/A	3	N/A	1
AT#(1)850/HF#(1)850	5	601	AC	1	N/A	-40	85	Ld-Ld	-	1140	601	N/A	0.5	N/A	1
AT#(1)90/HF#(1)90	5	64	AC	1	N/A	-40	85	Ld-Ld	-	290	64	N/A	3	N/A	1
AT#(1)900/HF#(1)900	5	636	AC	1	N/A	-40	85	Ld-Ld	-	1170	636	N/A	0.5	N/A	1
AT#(1)950/HF#(1)950	5	672	AC	1	N/A	-40	85	Ld-Ld	-	1230	672	N/A	0.5	N/A	1
BK1102M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1450	250	N/A	1.5	N/A	1, 3
BK1102M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1450	250	N/A	1.5	N/A	1, 3
BK1152M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1890	250	N/A	1.5	N/A	1, 3
BK1152M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1890	250	N/A	1.5	N/A	1, 3
BK1182M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2230	250	N/A	1.5	N/A	1, 3
BK1182M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2230	250	N/A	1.5	N/A	1, 3
BK12003002#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1450	230	N/A	1.5	N/A	1, 3
BK12003002-M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1450	230	N/A	1.5	N/A	1, 3
BK12003502#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1520	230	N/A	1.5	N/A	1, 3

BK12003502-M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1520	230	N/A	1.5	N/A	1, 3
BK12005002#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1450	250	N/A	1.5	N/A	1, 3
BK12005002-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1450	250	N/A	1.5	N/A	1, 3
BK12007502#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1890	250	N/A	1.5	N/A	1, 3
BK12007502-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1890	250	N/A	1.5	N/A	1, 3
BK12009002#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2230	250	N/A	1.5	N/A	1, 3
BK12009002-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2230	250	N/A	1.5	N/A	1, 3
BK12010002#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2480	250	N/A	1.5	N/A	1, 3
BK12010002-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2480	250	N/A	1.5	N/A	1, 3
BK12012002#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2830	250	N/A	1.5	N/A	1, 3
BK12012002-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2830	250	N/A	1.5	N/A	1, 3
BK12013502#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	3370	250	N/A	1.5	N/A	1, 3
BK12013502-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	3370	250	N/A	1.5	N/A	1, 3
BK12015002#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4350	500	N/A	1.5	N/A	1, 3
BK12015002-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4350	500	N/A	1.5	N/A	1, 3
BK12018002#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4290	500	N/A	1.5	N/A	1, 3
BK12018002-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4290	500	N/A	1.5	N/A	1, 3
BK12020002#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4470	500	N/A	1.5	N/A	1, 3
BK12020002-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4470	500	N/A	1.5	N/A	1, 3
BK12022502#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	5410	500	N/A	1.5	N/A	1, 3
BK12022502-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	5410	500	N/A	1.5	N/A	1, 3
BK12025002#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4920	500	N/A	1.5	N/A	1, 3
BK12025002-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4920	500	N/A	1.5	N/A	1, 3

BK1202M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2480	250	N/A	1.5	N/A	1, 3
BK1202M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2480	250	N/A	1.5	N/A	1, 3
BK1242M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2830	250	N/A	1.5	N/A	1, 3
BK1242M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	2830	250	N/A	1.5	N/A	1, 3
BK1272M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	3370	250	N/A	1.5	N/A	1, 3
BK1272M-M#(2)(*)	5	250	AC	1	N/A	-40	105	Ld-Ld	-	3370	250	N/A	1.5	N/A	1, 3
BK1302M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4350	500	N/A	1.5	N/A	1, 3
BK1302M-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4350	500	N/A	1.5	N/A	1, 3
BK1362M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4290	500	N/A	1.5	N/A	1, 3
BK1362M-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4290	500	N/A	1.5	N/A	1, 3
BK1402M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4470	500	N/A	1.5	N/A	1, 3
BK1402M-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4470	500	N/A	1.5	N/A	1, 3
BK1452M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	5410	500	N/A	1.5	N/A	1, 3
BK1452M-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	5410	500	N/A	1.5	N/A	1, 3
BK1502M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4920	500	N/A	1.5	N/A	1, 3
BK1502M-M#(2)(*)	5	500	AC	1	N/A	-40	105	Ld-Ld	-	4920	500	N/A	1.5	N/A	1, 3
BK1601M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1450	230	N/A	1.5	N/A	1, 3
BK1601M-M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1450	230	N/A	1.5	N/A	1, 3
BK1701M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1520	230	N/A	1.5	N/A	1, 3
BK1701M-M#(2)(*)	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1520	230	N/A	1.5	N/A	1, 3
HF0.5-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF0.5-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF0.5-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a

HF0.5-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF0.5-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF0.5-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF0.5-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF0.5-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF0.5-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF0.5-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF0.5-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF0.5-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF0.5-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF0.5-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF0.5-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF0.5-066C	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF0.5-066L	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF0.5-066S	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF0.5-076C	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF0.5-076L	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF0.5-076S	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF0.5-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF0.5-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF0.5-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF0.5-1100C	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a
HF0.5-1100L	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a

HF0.5-1100S	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a
HF0.5-1200C	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF0.5-1200L	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF0.5-1200S	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF0.5-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a
HF0.5-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a
HF0.5-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a
HF0.5-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF0.5-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF0.5-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF0.5-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF0.5-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF0.5-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF0.5-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF0.5-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF0.5-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF0.5-240C	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF0.5-240L	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF0.5-240S	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF0.5-275C	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF0.5-275L	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF0.5-275S	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF0.5-300C	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a

HF0.5-300L	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF0.5-300S	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF0.5-380C	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF0.5-380L	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF0.5-380S	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF0.5-430C	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF0.5-430L	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF0.5-430S	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF0.5-460C	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF0.5-460L	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF0.5-460S	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF0.5-500C	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF0.5-500L	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF0.5-500S	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF1-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF1-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF1-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF1-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF1-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF1-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a

HF1-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF1-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF1-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF1-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1-066C	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF1-066L	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF1-066S	5	45	AC	1	N/A	-40	85	Ld-Ld	-	100	45	N/A	1	N/A	1,5a
HF1-076C	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF1-076L	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF1-076S	5	54	AC	1	N/A	-40	85	Ld-Ld	-	110	54	N/A	1	N/A	1,5a
HF1-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1-1100C	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a
HF1-1100L	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a
HF1-1100S	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1510	770	N/A	1	N/A	1,5a
HF1-1200C	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1-1200L	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1-1200S	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a
HF1-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a

HF1-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	200	100	N/A	1.5	N/A	1,5a
HF1-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF1-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF1-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	260	130	N/A	1.5	N/A	1,5a
HF1-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF1-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF1-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	280	145	N/A	1.5	N/A	1,5a
HF1-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF1-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF1-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	290	150	N/A	1.5	N/A	1,5a
HF1-240C	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1-240L	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1-240S	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1-275C	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1-275L	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1-275S	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1-300C	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1-300L	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1-300S	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1-380C	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1-380L	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1-380S	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1-430C	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a

HF1-430L	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF1-430S	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF1-460C	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF1-460L	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF1-460S	5	330	AC	1	N/A	-40	85	Ld-Ld	-	640	330	N/A	1.5	N/A	1,5a
HF1-500C	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF1-500L	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF1-500S	5	385	AC	1	N/A	-40	85	Ld-Ld	-	750	385	N/A	1	N/A	1,5a
HF1-650C	5	460	AC	1	N/A	-40	85	Ld-Ld	-	930	460	N/A	1	N/A	1,5a
HF1-650L	5	460	AC	1	N/A	-40	85	Ld-Ld	-	930	460	N/A	1	N/A	1,5a
HF1-650S	5	460	AC	1	N/A	-40	85	Ld-Ld	-	930	460	N/A	1	N/A	1,5a
HF1-800C	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1160	560	N/A	1	N/A	1,5a
HF1-800L	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1160	560	N/A	1	N/A	1,5a
HF1-800S	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1160	560	N/A	1	N/A	1,5a
HF1.5-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF1.5-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HF1.5-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1.5-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1.5-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HF1.5-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF1.5-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF1.5-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HF1.5-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a

HF1.5-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF1.5-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	80	30	N/A	1.5	N/A	1,5a
HF1.5-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1.5-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1.5-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	100	40	N/A	1.5	N/A	1,5a
HF1.5-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1.5-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1.5-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	150	72	N/A	1.5	N/A	1,5a
HF1.5-1100C	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1640	770	N/A	1.5	N/A	1,5a
HF1.5-1100L	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1640	770	N/A	1.5	N/A	1,5a
HF1.5-1100S	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1640	770	N/A	1.5	N/A	1,5a
HF1.5-1200C	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1.5-1200L	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1.5-1200S	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1780	849	N/A	1.5	N/A	1,5a
HF1.5-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	220	100	N/A	1.5	N/A	1,5a
HF1.5-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	220	100	N/A	1.5	N/A	1,5a
HF1.5-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	220	100	N/A	1.5	N/A	1,5a
HF1.5-150C	5	105	AC	1	N/A	-40	85	Ld-Ld	-	230	105	N/A	1.5	N/A	1,5a
HF1.5-150L	5	105	AC	1	N/A	-40	85	Ld-Ld	-	230	105	N/A	1.5	N/A	1,5a
HF1.5-150S	5	105	AC	1	N/A	-40	85	Ld-Ld	-	230	105	N/A	1.5	N/A	1,5a
HF1.5-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	270	130	N/A	1.5	N/A	1,5a
HF1.5-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	270	130	N/A	1.5	N/A	1,5a
HF1.5-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	270	130	N/A	1.5	N/A	1,5a

HF1.5-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	290	145	N/A	1.5	N/A	1,5a
HF1.5-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	290	145	N/A	1.5	N/A	1,5a
HF1.5-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	290	145	N/A	1.5	N/A	1,5a
HF1.5-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	300	150	N/A	1.5	N/A	1,5a
HF1.5-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	300	150	N/A	1.5	N/A	1,5a
HF1.5-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	300	150	N/A	1.5	N/A	1,5a
HF1.5-240C	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1.5-240L	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1.5-240S	5	180	AC	1	N/A	-40	85	Ld-Ld	-	350	180	N/A	1.5	N/A	1,5a
HF1.5-275C	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1.5-275L	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1.5-275S	5	210	AC	1	N/A	-40	85	Ld-Ld	-	400	210	N/A	1.5	N/A	1,5a
HF1.5-300C	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1.5-300L	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1.5-300S	5	230	AC	1	N/A	-40	85	Ld-Ld	-	440	230	N/A	1.5	N/A	1,5a
HF1.5-380C	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1.5-380L	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1.5-380S	5	275	AC	1	N/A	-40	85	Ld-Ld	-	530	275	N/A	1.5	N/A	1,5a
HF1.5-430C	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF1.5-430L	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF1.5-430S	5	310	AC	1	N/A	-40	85	Ld-Ld	-	600	310	N/A	1.5	N/A	1,5a
HF1.5-460C	5	330	AC	1	N/A	-40	85	Ld-Ld	-	650	330	N/A	1.5	N/A	1,5a
HF1.5-460L	5	330	AC	1	N/A	-40	85	Ld-Ld	-	650	330	N/A	1.5	N/A	1,5a

HF1.5-460S	5	330	AC	1	N/A	-40	85	Ld-Ld	-	650	330	N/A	1.5	N/A	1,5a
HF1.5-500C	5	385	AC	1	N/A	-40	85	Ld-Ld	-	800	385	N/A	1.5	N/A	1,5a
HF1.5-500L	5	385	AC	1	N/A	-40	85	Ld-Ld	-	800	385	N/A	1.5	N/A	1,5a
HF1.5-500S	5	385	AC	1	N/A	-40	85	Ld-Ld	-	800	385	N/A	1.5	N/A	1,5a
HF1.5-650C	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1010	460	N/A	1.5	N/A	1,5a
HF1.5-650L	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1010	460	N/A	1.5	N/A	1,5a
HF1.5-650S	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1010	460	N/A	1.5	N/A	1,5a
HF1.5-800C	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1280	560	N/A	1.5	N/A	1,5a
HF1.5-800L	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1280	560	N/A	1.5	N/A	1,5a
HF1.5-800S	5	560	AC	1	N/A	-40	85	Ld-Ld	-	1280	560	N/A	1.5	N/A	1,5a
HFA-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFA-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFA-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFA-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFA-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFA-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFA-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFA-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFA-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFA-1100\$\$	5	770	AC	1	N/A	-40	85	Ld-Ld	-	1650	770	N/A	3	N/A	1,5a
HFA-1200\$\$	5	849	AC	1	N/A	-40	85	Ld-Ld	-	1820	849	N/A	3	N/A	1,5a
HFA-460C	5	330	AC	1	N/A	-40	85	Ld-Ld	-	720	330	N/A	3	N/A	1,5a
HFA-460L	5	330	AC	1	N/A	-40	85	Ld-Ld	-	720	330	N/A	3	N/A	1,5a

HFA-460S	5	330	AC	1	N/A	-40	85	Ld-Ld	-	720	330	N/A	3	N/A	1,5a
HFA-500\$\$	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1000	460	N/A	3	N/A	1,5a
HFA-650\$\$	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1000	460	N/A	3	N/A	1,5a
HFB-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFB-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFB-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFB-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFB-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFB-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	90	11	N/A	5	N/A	1,5a
HFB-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFB-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFB-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	100	14	N/A	5	N/A	1,5a
HFB-025C	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFB-025L	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFB-025S	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFB-030C	5	21	AC	1	N/A	-40	85	Ld-Ld	-	110	21	N/A	5	N/A	1,5a
HFB-030L	5	21	AC	1	N/A	-40	85	Ld-Ld	-	110	21	N/A	5	N/A	1,5a
HFB-030S	5	21	AC	1	N/A	-40	85	Ld-Ld	-	110	21	N/A	5	N/A	1,5a
HFB-033C	5	23	AC	1	N/A	-40	85	Ld-Ld	-	120	23	N/A	5	N/A	1,5a
HFB-033L	5	23	AC	1	N/A	-40	85	Ld-Ld	-	120	23	N/A	5	N/A	1,5a
HFB-033S	5	23	AC	1	N/A	-40	85	Ld-Ld	-	120	23	N/A	5	N/A	1,5a
HFB-039C	5	27	AC	1	N/A	-40	85	Ld-Ld	-	120	27	N/A	5	N/A	1,5a
HFB-039L	5	27	AC	1	N/A	-40	85	Ld-Ld	-	120	27	N/A	5	N/A	1,5a

HFB-039S	5	27	AC	1	N/A	-40	85	Ld-Ld	-	120	27	N/A	5	N/A	1,5a
HFB-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	130	30	N/A	5	N/A	1,5a
HFB-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	130	30	N/A	5	N/A	1,5a
HFB-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	130	30	N/A	5	N/A	1,5a
HFB-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	140	40	N/A	5	N/A	1,5a
HFB-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	140	40	N/A	5	N/A	1,5a
HFB-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	140	40	N/A	5	N/A	1,5a
HFB-066C	5	45	AC	1	N/A	-40	85	Ld-Ld	-	150	45	N/A	5	N/A	1,5a
HFB-066L	5	45	AC	1	N/A	-40	85	Ld-Ld	-	150	45	N/A	5	N/A	1,5a
HFB-066S	5	45	AC	1	N/A	-40	85	Ld-Ld	-	150	45	N/A	5	N/A	1,5a
HFB-076C	5	54	AC	1	N/A	-40	85	Ld-Ld	-	170	54	N/A	5	N/A	1,5a
HFB-076L	5	54	AC	1	N/A	-40	85	Ld-Ld	-	170	54	N/A	5	N/A	1,5a
HFB-076S	5	54	AC	1	N/A	-40	85	Ld-Ld	-	170	54	N/A	5	N/A	1,5a
HFB-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	200	72	N/A	5	N/A	1,5a
HFB-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	200	72	N/A	5	N/A	1,5a
HFB-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	200	72	N/A	5	N/A	1,5a
HFB-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	240	100	N/A	5	N/A	1,5a
HFB-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	240	100	N/A	5	N/A	1,5a
HFB-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	240	100	N/A	5	N/A	1,5a
HFB-150C	5	105	AC	1	N/A	-40	85	Ld-Ld	-	250	105	N/A	5	N/A	1,5a
HFB-150L	5	105	AC	1	N/A	-40	85	Ld-Ld	-	250	105	N/A	5	N/A	1,5a
HFB-150S	5	105	AC	1	N/A	-40	85	Ld-Ld	-	250	105	N/A	5	N/A	1,5a
HFB-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	290	130	N/A	5	N/A	1,5a

HFB-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	290	130	N/A	5	N/A	1,5a
HFB-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	290	130	N/A	5	N/A	1,5a
HFB-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	310	145	N/A	5	N/A	1,5a
HFB-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	310	145	N/A	5	N/A	1,5a
HFB-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	310	145	N/A	5	N/A	1,5a
HFB-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	320	150	N/A	5	N/A	1,5a
HFB-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	320	150	N/A	5	N/A	1,5a
HFB-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	320	150	N/A	5	N/A	1,5a
HFB-240C	5	180	AC	1	N/A	-40	85	Ld-Ld	-	380	180	N/A	5	N/A	1,5a
HFB-240L	5	180	AC	1	N/A	-40	85	Ld-Ld	-	380	180	N/A	5	N/A	1,5a
HFB-240S	5	180	AC	1	N/A	-40	85	Ld-Ld	-	380	180	N/A	5	N/A	1,5a
HFB-275C	5	210	AC	1	N/A	-40	85	Ld-Ld	-	430	210	N/A	5	N/A	1,5a
HFB-275L	5	210	AC	1	N/A	-40	85	Ld-Ld	-	430	210	N/A	5	N/A	1,5a
HFB-275S	5	210	AC	1	N/A	-40	85	Ld-Ld	-	430	210	N/A	5	N/A	1,5a
HFB-300C	5	230	AC	1	N/A	-40	85	Ld-Ld	-	470	230	N/A	5	N/A	1,5a
HFB-300L	5	230	AC	1	N/A	-40	85	Ld-Ld	-	470	230	N/A	5	N/A	1,5a
HFB-300S	5	230	AC	1	N/A	-40	85	Ld-Ld	-	470	230	N/A	5	N/A	1,5a
HFB-380C	5	275	AC	1	N/A	-40	85	Ld-Ld	-	550	275	N/A	5	N/A	1,5a
HFB-380L	5	275	AC	1	N/A	-40	85	Ld-Ld	-	550	275	N/A	5	N/A	1,5a
HFB-380S	5	275	AC	1	N/A	-40	85	Ld-Ld	-	550	275	N/A	5	N/A	1,5a
HFB-430C	5	310	AC	1	N/A	-40	85	Ld-Ld	-	620	310	N/A	5	N/A	1,5a
HFB-430L%	5	310	AC	1	n/a	-40	85	Ld-Ld	-	580	310	n/a	5	n/a	1
HFB-430S	5	310	AC	1	N/A	-40	85	Ld-Ld	-	620	310	N/A	5	N/A	1,5a

HFC-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFC-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFC-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	160	8.5	N/A	10	N/A	1,5a
HFC-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	170	11	N/A	10	N/A	1,5a
HFC-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	170	11	N/A	10	N/A	1,5a
HFC-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	170	11	N/A	10	N/A	1,5a
HFC-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	180	14	N/A	10	N/A	1,5a
HFC-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	180	14	N/A	10	N/A	1,5a
HFC-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	180	14	N/A	10	N/A	1,5a
HFC-025C	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFC-025L	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFC-025S	5	17	AC	1	N/A	-40	85	Ld-Ld	-	180	17	N/A	10	N/A	1,5a
HFC-030C	5	21	AC	1	N/A	-40	85	Ld-Ld	-	200	21	N/A	10	N/A	1,5a
HFC-030L	5	21	AC	1	N/A	-40	85	Ld-Ld	-	200	21	N/A	10	N/A	1,5a
HFC-030S	5	21	AC	1	N/A	-40	85	Ld-Ld	-	200	21	N/A	10	N/A	1,5a
HFC-033C	5	23	AC	1	N/A	-40	85	Ld-Ld	-	200	23	N/A	10	N/A	1,5a
HFC-033L	5	23	AC	1	N/A	-40	85	Ld-Ld	-	200	23	N/A	10	N/A	1,5a
HFC-033S	5	23	AC	1	N/A	-40	85	Ld-Ld	-	200	23	N/A	10	N/A	1,5a
HFC-039C	5	27	AC	1	N/A	-40	85	Ld-Ld	-	210	27	N/A	10	N/A	1,5a
HFC-039L	5	27	AC	1	N/A	-40	85	Ld-Ld	-	210	27	N/A	10	N/A	1,5a
HFC-039S	5	27	AC	1	N/A	-40	85	Ld-Ld	-	210	27	N/A	10	N/A	1,5a
HFC-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	220	30	N/A	10	N/A	1,5a
HFC-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	220	30	N/A	10	N/A	1,5a

HFC-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	220	30	N/A	10	N/A	1,5a
HFC-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	250	40	N/A	10	N/A	1,5a
HFC-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	250	40	N/A	10	N/A	1,5a
HFC-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	250	40	N/A	10	N/A	1,5a
HFC-066C	5	45	AC	1	N/A	-40	85	Ld-Ld	-	260	45	N/A	10	N/A	1,5a
HFC-066L	5	45	AC	1	N/A	-40	85	Ld-Ld	-	260	45	N/A	10	N/A	1,5a
HFC-066S	5	45	AC	1	N/A	-40	85	Ld-Ld	-	260	45	N/A	10	N/A	1,5a
HFC-076C	5	54	AC	1	N/A	-40	85	Ld-Ld	-	270	54	N/A	10	N/A	1,5a
HFC-076L	5	54	AC	1	N/A	-40	85	Ld-Ld	-	270	54	N/A	10	N/A	1,5a
HFC-076S	5	54	AC	1	N/A	-40	85	Ld-Ld	-	270	54	N/A	10	N/A	1,5a
HFC-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	300	72	N/A	10	N/A	1,5a
HFC-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	300	72	N/A	10	N/A	1,5a
HFC-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	300	72	N/A	10	N/A	1,5a
HFC-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	340	100	N/A	10	N/A	1,5a
HFC-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	340	100	N/A	10	N/A	1,5a
HFC-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	340	100	N/A	10	N/A	1,5a
HFC-150C	5	105	AC	1	N/A	-40	85	Ld-Ld	-	350	105	N/A	10	N/A	1,5a
HFC-150L	5	105	AC	1	N/A	-40	85	Ld-Ld	-	350	105	N/A	10	N/A	1,5a
HFC-150S	5	105	AC	1	N/A	-40	85	Ld-Ld	-	350	105	N/A	10	N/A	1,5a
HFC-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	390	130	N/A	10	N/A	1,5a
HFC-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	390	130	N/A	10	N/A	1,5a
HFC-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	390	130	N/A	10	N/A	1,5a
HFC-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	410	145	N/A	10	N/A	1,5a

HFC-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	410	145	N/A	10	N/A	1,5a
HFC-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	410	145	N/A	10	N/A	1,5a
HFC-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	400	150	N/A	10	N/A	1,5a
HFC-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	400	150	N/A	10	N/A	1,5a
HFC-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	400	150	N/A	10	N/A	1,5a
HFC-240C	5	180	AC	1	N/A	-40	85	Ld-Ld	-	450	180	N/A	10	N/A	1,5a
HFC-240L	5	180	AC	1	N/A	-40	85	Ld-Ld	-	450	180	N/A	10	N/A	1,5a
HFC-240S	5	180	AC	1	N/A	-40	85	Ld-Ld	-	450	180	N/A	10	N/A	1,5a
HFC-275C	5	210	AC	1	N/A	-40	85	Ld-Ld	-	500	210	N/A	10	N/A	1,5a
HFC-275L	5	210	AC	1	N/A	-40	85	Ld-Ld	-	500	210	N/A	10	N/A	1,5a
HFC-275S	5	210	AC	1	N/A	-40	85	Ld-Ld	-	500	210	N/A	10	N/A	1,5a
HFC-300C	5	230	AC	1	N/A	-40	85	Ld-Ld	-	530	230	N/A	10	N/A	1,5a
HFC-300L	5	230	AC	1	N/A	-40	85	Ld-Ld	-	530	230	N/A	10	N/A	1,5a
HFC-300S	5	230	AC	1	N/A	-40	85	Ld-Ld	-	530	230	N/A	10	N/A	1,5a
HFC-380C	5	275	AC	1	N/A	-40	85	Ld-Ld	-	600	275	N/A	10	N/A	1,5a
HFC-380L	5	275	AC	1	N/A	-40	85	Ld-Ld	-	600	275	N/A	10	N/A	1,5a
HFC-380S	5	275	AC	1	N/A	-40	85	Ld-Ld	-	600	275	N/A	10	N/A	1,5a
HFC-430C	5	310	AC	1	N/A	-40	85	Ld-Ld	-	660	310	N/A	10	N/A	1,5a
HFC-430L%	5	310	AC	1	n/a	-40	85	Ld-Ld	-	620	310	n/a	10	n/a	1,5a
HFC-430S	5	310	AC	1	N/A	-40	85	Ld-Ld	-	660	310	N/A	10	N/A	1,5a
HFD-012C	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	240	8.5	N/A	10	N/A	1,5a
HFD-012L	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	240	8.5	N/A	10	N/A	1,5a
HFD-012S	5	8.5	AC	1	N/A	-40	85	Ld-Ld	-	240	8.5	N/A	10	N/A	1,5a

HFD-015C	5	11	AC	1	N/A	-40	85	Ld-Ld	-	230	11	N/A	10	N/A	1,5a
HFD-015L	5	11	AC	1	N/A	-40	85	Ld-Ld	-	230	11	N/A	10	N/A	1,5a
HFD-015S	5	11	AC	1	N/A	-40	85	Ld-Ld	-	230	11	N/A	10	N/A	1,5a
HFD-020C	5	14	AC	1	N/A	-40	85	Ld-Ld	-	240	14	N/A	10	N/A	1,5a
HFD-020L	5	14	AC	1	N/A	-40	85	Ld-Ld	-	240	14	N/A	10	N/A	1,5a
HFD-020S	5	14	AC	1	N/A	-40	85	Ld-Ld	-	240	14	N/A	10	N/A	1,5a
HFD-030C	5	21	AC	1	N/A	-40	85	Ld-Ld	-	250	21	N/A	10	N/A	1,5a
HFD-030L	5	21	AC	1	N/A	-40	85	Ld-Ld	-	250	21	N/A	10	N/A	1,5a
HFD-030S	5	21	AC	1	N/A	-40	85	Ld-Ld	-	250	21	N/A	10	N/A	1,5a
HFD-033C	5	23	AC	1	N/A	-40	85	Ld-Ld	-	260	23	N/A	10	N/A	1,5a
HFD-033L	5	23	AC	1	N/A	-40	85	Ld-Ld	-	260	23	N/A	10	N/A	1,5a
HFD-033S	5	23	AC	1	N/A	-40	85	Ld-Ld	-	260	23	N/A	10	N/A	1,5a
HFD-039C	5	27	AC	1	N/A	-40	85	Ld-Ld	-	270	27	N/A	10	N/A	1,5a
HFD-039L	5	27	AC	1	N/A	-40	85	Ld-Ld	-	270	27	N/A	10	N/A	1,5a
HFD-039S	5	27	AC	1	N/A	-40	85	Ld-Ld	-	270	27	N/A	10	N/A	1,5a
HFD-042C	5	30	AC	1	N/A	-40	85	Ld-Ld	-	270	30	N/A	10	N/A	1,5a
HFD-042L	5	30	AC	1	N/A	-40	85	Ld-Ld	-	270	30	N/A	10	N/A	1,5a
HFD-042S	5	30	AC	1	N/A	-40	85	Ld-Ld	-	270	30	N/A	10	N/A	1,5a
HFD-058C	5	40	AC	1	N/A	-40	85	Ld-Ld	-	300	40	N/A	10	N/A	1,5a
HFD-058L	5	40	AC	1	N/A	-40	85	Ld-Ld	-	300	40	N/A	10	N/A	1,5a
HFD-058S	5	40	AC	1	N/A	-40	85	Ld-Ld	-	300	40	N/A	10	N/A	1,5a
HFD-066C	5	45	AC	1	N/A	-40	85	Ld-Ld	-	310	45	N/A	10	N/A	1,5a
HFD-066L	5	45	AC	1	N/A	-40	85	Ld-Ld	-	310	45	N/A	10	N/A	1,5a

HFD-066S	5	45	AC	1	N/A	-40	85	Ld-Ld	-	310	45	N/A	10	N/A	1,5a
HFD-076C	5	54	AC	1	N/A	-40	85	Ld-Ld	-	330	54	N/A	10	N/A	1,5a
HFD-076L	5	54	AC	1	N/A	-40	85	Ld-Ld	-	330	54	N/A	10	N/A	1,5a
HFD-076S	5	54	AC	1	N/A	-40	85	Ld-Ld	-	330	54	N/A	10	N/A	1,5a
HFD-100C	5	72	AC	1	N/A	-40	85	Ld-Ld	-	370	72	N/A	10	N/A	1,5a
HFD-100L	5	72	AC	1	N/A	-40	85	Ld-Ld	-	370	72	N/A	10	N/A	1,5a
HFD-100S	5	72	AC	1	N/A	-40	85	Ld-Ld	-	370	72	N/A	10	N/A	1,5a
HFD-133C	5	100	AC	1	N/A	-40	85	Ld-Ld	-	420	100	N/A	10	N/A	1,5a
HFD-133L	5	100	AC	1	N/A	-40	85	Ld-Ld	-	420	100	N/A	10	N/A	1,5a
HFD-133S	5	100	AC	1	N/A	-40	85	Ld-Ld	-	420	100	N/A	10	N/A	1,5a
HFD-150C	5	105	AC	1	N/A	-40	85	Ld-Ld	-	430	105	N/A	10	N/A	1,5a
HFD-150L	5	105	AC	1	N/A	-40	85	Ld-Ld	-	430	105	N/A	10	N/A	1,5a
HFD-150S	5	105	AC	1	N/A	-40	85	Ld-Ld	-	430	105	N/A	10	N/A	1,5a
HFD-170C	5	130	AC	1	N/A	-40	85	Ld-Ld	-	470	130	N/A	10	N/A	1,5a
HFD-170L	5	130	AC	1	N/A	-40	85	Ld-Ld	-	470	130	N/A	10	N/A	1,5a
HFD-170S	5	130	AC	1	N/A	-40	85	Ld-Ld	-	470	130	N/A	10	N/A	1,5a
HFD-190C	5	145	AC	1	N/A	-40	85	Ld-Ld	-	500	145	N/A	10	N/A	1,5a
HFD-190L	5	145	AC	1	N/A	-40	85	Ld-Ld	-	500	145	N/A	10	N/A	1,5a
HFD-190S	5	145	AC	1	N/A	-40	85	Ld-Ld	-	500	145	N/A	10	N/A	1,5a
HFD-200C	5	150	AC	1	N/A	-40	85	Ld-Ld	-	510	150	N/A	10	N/A	1,5a
HFD-200L	5	150	AC	1	N/A	-40	85	Ld-Ld	-	510	150	N/A	10	N/A	1,5a
HFD-200S	5	150	AC	1	N/A	-40	85	Ld-Ld	-	510	150	N/A	10	N/A	1,5a
"Gas Tubes"															

2R(&)2000L+	5	250	AC	1	n/a	-40	125	Ld-Ld	-	3760	250	n/a	5	n/a	1,3
101KS20	5	60	AC	1	N/A	-40	105	Ld-Ld	-	250	60	100	3	N/A	1, 5a
101KS22	5	60	AC	1	N/A	-40	105	Ld-Ld	-	250	60	100	3	N/A	1, 5a
102KC10	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2620	625	1000	3	N/A	1, 5a
102KC14	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2560	625	1000	3	N/A	1, 5a
102KC20	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2090	625	1000	3	N/A	1, 5a
102KC25	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2160	625	1000	5	N/A	1, 5a
102KD32	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2070	625	1000	10	N/A	1, 5a
102KD40	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2190	625	1000	20	N/A	1, 5a
102KD53	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2020	625	1000	20	N/A	1, 5a
102KR34	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2070	625	1000	20	N/A	1, 5a
102KS22	5	625	AC	1	N/A	-40	105	Ld-Ld	-	1810	625	1000	5	N/A	1, 5a
102KS34	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2350	625	1000	20	N/A	1, 5a
112KC10	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2870	680	1100	3	N/A	1, 5a
112KC14	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2800	680	1100	3	N/A	1, 5a
112KC20	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2270	680	1100	3	N/A	1, 5a
112KC25	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2330	680	1100	5	N/A	1, 5a
112KD32	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2250	680	1100	10	N/A	1, 5a
112KD40	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2390	680	1100	20	N/A	1, 5a
112KD53	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2220	680	1100	20	N/A	1, 5a
112KR34	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2230	680	1100	20	N/A	1, 5a
112KS22	5	680	AC	1	N/A	-40	105	Ld-Ld	-	1990	680	1100	5	N/A	1, 5a
112KS34	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2530	680	1100	20	N/A	1, 5a

121KS20	5	75	AC	1	N/A	-40	105	Ld-Ld	-	280	75	120	3	N/A	1, 5a
121KS22	5	75	AC	1	N/A	-40	105	Ld-Ld	-	290	75	120	3	N/A	1, 5a
122KD32	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2480	750	1200	10	N/A	1, 5a
122KD40	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2650	750	1200	20	N/A	1, 5a
122KD53	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2480	750	1200	20	N/A	1, 5a
122KR34	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2430	750	1200	20	N/A	1, 5a
122KS22	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2230	750	1200	5	N/A	1, 5a
122KS34	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2760	750	1200	20	N/A	1, 5a
142KD32	5	750	AC	1	N/A	-40	105	Ld-Ld	-	3050	880	1400	10	N/A	1,5a
142KD40	5	750	AC	1	N/A	-40	105	Ld-Ld	-	3200	880	1400	20	N/A	1,5a
142KD53	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2900	880	1400	20	N/A	1,5a
142KR34	5	750	AC	1	N/A	-40	105	Ld-Ld	-	3040	880	1400	20	N/A	1,5a
142KS34	5	750	AC	1	N/A	-40	105	Ld-Ld	-	3370	880	1400	20	N/A	1,5a
151KS20	5	95	AC	1	N/A	-40	105	Ld-Ld	-	320	95	150	3	N/A	1, 5a
151KS22	5	95	AC	1	N/A	-40	105	Ld-Ld	-	340	95	150	3	N/A	1, 5a
181KC07	5	115	AC	1	N/A	-40	105	Ld-Ld	-	380	115	180	0.25	N/A	1, 5a
181KC10	5	115	AC	1	N/A	-40	105	Ld-Ld	-	410	115	180	1	N/A	1, 5a
181KC14	5	115	AC	1	N/A	-40	105	Ld-Ld	-	460	115	180	2	N/A	1, 5a
181KC20	5	115	AC	1	N/A	-40	105	Ld-Ld	-	460	115	180	2.5	N/A	1, 5a
181KC25	5	115	AC	1	N/A	-40	105	Ld-Ld	-	450	115	180	3	N/A	1, 5a
181KD32	5	115	AC	1	N/A	-40	105	Ld-Ld	-	490	115	180	10	N/A	1, 5a
181KD40	5	115	AC	1	N/A	-40	105	Ld-Ld	-	630	115	180	20	N/A	1, 5a
181KD53	5	115	AC	1	N/A	-40	105	Ld-Ld	-	620	115	180	20	N/A	1, 5a

181KR34	5	115	AC	1	N/A	-40	105	Ld-Ld	-	620	115	180	20	N/A	1, 5a
181KS20	5	115	AC	1	N/A	-40	105	Ld-Ld	-	430	115	180	5	N/A	1, 5a
181KS22	5	115	AC	1	N/A	-40	105	Ld-Ld	-	410	115	180	5	N/A	1, 5a
181KS34	5	115	AC	1	N/A	-40	105	Ld-Ld	-	680	115	180	20	N/A	1, 5a
201KC07	5	130	AC	1	N/A	-40	105	Ld-Ld	-	470	130	200	0.5	N/A	1, 5a
201KC10	5	130	AC	1	N/A	-40	105	Ld-Ld	-	670	130	200	3	N/A	1, 5a
201KC14	5	130	AC	1	N/A	-40	105	Ld-Ld	-	580	130	200	3	N/A	1, 5a
201KC20	5	130	AC	1	N/A	-40	105	Ld-Ld	-	530	130	200	3	N/A	1, 5a
201KC25	5	130	AC	1	N/A	-40	105	Ld-Ld	-	550	130	200	5	N/A	1, 5a
201KD32	5	130	AC	1	N/A	-40	105	Ld-Ld	-	530	130	200	10	N/A	1, 5a
201KD40	5	130	AC	1	N/A	-40	105	Ld-Ld	-	670	130	200	20	N/A	1, 5a
201KD53	5	130	AC	1	N/A	-40	105	Ld-Ld	-	660	130	200	20	N/A	1, 5a
201KR34	5	130	AC	1	N/A	-40	105	Ld-Ld	-	660	130	200	20	N/A	1, 5a
201KS20	5	130	AC	1	N/A	-40	105	Ld-Ld	-	480	130	200	5	N/A	1, 5a
201KS22	5	130	AC	1	N/A	-40	105	Ld-Ld	-	450	130	200	5	N/A	1, 5a
201KS34	5	130	AC	1	N/A	-40	105	Ld-Ld	-	720	130	200	20	N/A	1, 5a
20S101K	5	60	AC	1	N/A	-40	105	Ld-Ld	-	250	60	100	3	N/A	1, 5a
20S121K	5	75	AC	1	N/A	-40	105	Ld-Ld	-	280	75	120	3	N/A	1, 5a
20S151K	5	95	AC	1	N/A	-40	105	Ld-Ld	-	320	95	150	3	N/A	1, 5a
20S181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	430	115	180	5	N/A	1, 5a
20S201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	480	130	200	5	N/A	1, 5a
20S221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	510	140	220	5	N/A	1, 5a
20S241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	540	150	240	5	N/A	1, 5a

20S271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	620	175	270	5	N/A	1, 5a
20S301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	670	190	300	5	N/A	1, 5a
20S331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	740	210	330	5	N/A	1, 5a
20S361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	800	230	360	5	N/A	1, 5a
20S390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	170	25	39	2	N/A	1, 5a
20S391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	860	250	390	5	N/A	1, 5a
20S431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	940	275	430	5	N/A	1, 5a
20S470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	200	30	47	2	N/A	1, 5a
20S471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1010	300	470	5	N/A	1, 5a
20S511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1070	320	510	5	N/A	1, 5a
20S560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	220	35	56	2	N/A	1, 5a
20S561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1170	350	560	5	N/A	1, 5a
20S621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1270	385	620	5	N/A	1, 5a
20S680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	250	40	68	2	N/A	1, 5a
20S681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1380	420	680	5	N/A	1, 5a
20S820K	5	50	AC	1	N/A	-40	105	Ld-Ld	-	230	50	82	3	N/A	1, 5a
221KC07	5	140	AC	1	N/A	-40	105	Ld-Ld	-	510	140	220	0.5	N/A	1, 5a
221KC10	5	140	AC	1	N/A	-40	105	Ld-Ld	-	710	140	220	3	N/A	1, 5a
221KC14	5	140	AC	1	N/A	-40	105	Ld-Ld	-	620	140	220	3	N/A	1, 5a
221KC25	5	140	AC	1	N/A	-40	105	Ld-Ld	-	580	140	220	5	N/A	1, 5a
221KD32	5	140	AC	1	N/A	-40	105	Ld-Ld	-	560	140	220	10	N/A	1, 5a
221KD40	5	140	AC	1	N/A	-40	105	Ld-Ld	-	700	140	220	20	N/A	1, 5a
221KD53	5	140	AC	1	N/A	-40	105	Ld-Ld	-	680	140	220	20	N/A	1, 5a

221KR34	5	140	AC	1	N/A	-40	105	Ld-Ld	-	690	140	220	20	N/A	1, 5a
221KS20	5	140	AC	1	N/A	-40	105	Ld-Ld	-	510	140	220	5	N/A	1, 5a
221KS22	5	140	AC	1	N/A	-40	105	Ld-Ld	-	480	140	220	5	N/A	1, 5a
221KS34	5	140	AC	1	N/A	-40	105	Ld-Ld	-	750	140	220	20	N/A	1, 5a
22E511K(#)	4CA	320	AC	1	N/A	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1, 5a
22E911K(#)	4CA	550	AC	1	N/A	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1, 5a
22M511K(#)	4CA	320	AC	1	N/A	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1, 5a
22M911K(#)	4CA	550	AC	1	N/A	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1, 5a
22N511K(#)	4CA	320	AC	1	N/A	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1, 5a
22N911K(#)	4CA	550	AC	1	N/A	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1,5a
22S101K	5	60	AC	1	N/A	-40	105	Ld-Ld	-	250	60	100	3	N/A	1, 5a
22S102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	1810	625	1000	5	N/A	1, 5a
22S112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	1990	680	1100	5	N/A	1, 5a
22S121K	5	75	AC	1	N/A	-40	105	Ld-Ld	-	290	75	120	3	N/A	1, 5a
22S122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2230	750	1200	5	N/A	1, 5a
22S151K	5	95	AC	1	N/A	-40	105	Ld-Ld	-	340	95	150	3	N/A	1, 5a
22S181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	410	115	180	5	N/A	1, 5a
22S201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	450	130	200	5	N/A	1, 5a
22S221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	480	140	220	5	N/A	1, 5a
22S241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	500	150	240	5	N/A	1, 5a
22S271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	570	175	270	5	N/A	1, 5a
22S301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	610	190	300	5	N/A	1, 5a
22S331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	670	210	330	5	N/A	1, 5a

22S361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	720	230	360	5	N/A	1, 5a
22S390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	140	25	39	2	N/A	1, 5a
22S391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	780	250	390	5	N/A	1, 5a
22S431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	850	275	430	5	N/A	1, 5a
22S470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	150	30	47	2	N/A	1, 5a
22S471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	930	300	470	5	N/A	1, 5a
22S511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	990	320	510	5	N/A	1, 5a
22S560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	160	35	56	2	N/A	1, 5a
22S561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1070	350	560	5	N/A	1, 5a
22S621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1070	385	620	5	N/A	1, 5a
22S680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	170	40	68	2	N/A	1, 5a
22S681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1280	420	680	5	N/A	1, 5a
22S711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1340	440	710	5	N/A	1, 5a
22S751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1410	460	750	5	N/A	1, 5a
22S781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1490	485	780	5	N/A	1, 5a
22S820K	5	50	AC	1	N/A	-40	105	Ld-Ld	-	220	50	82	3	N/A	1, 5a
22S821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1570	510	820	5	N/A	1, 5a
22S911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1700	550	910	5	N/A	1, 5a
22S951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1780	575	950	5	N/A	1, 5a
241KC07	5	150	AC	1	N/A	-40	105	Ld-Ld	-	540	150	240	0.5	N/A	1, 5a
241KC10	5	150	AC	1	N/A	-40	105	Ld-Ld	-	760	150	240	3	N/A	1, 5a
241KC14	5	150	AC	1	N/A	-40	105	Ld-Ld	-	660	150	240	3	N/A	1, 5a
241KC20	5	150	AC	1	N/A	-40	105	Ld-Ld	-	590	150	240	3	N/A	1, 5a

241KC25	5	150	AC	1	N/A	-40	105	Ld-Ld	-	610	150	240	5	N/A	1, 5a
241KR34	5	150	AC	1	N/A	-40	105	Ld-Ld	-	720	150	240	20	N/A	1, 5a
241KS20	5	150	AC	1	N/A	-40	105	Ld-Ld	-	540	150	240	5	N/A	1, 5a
241KS22	5	150	AC	1	N/A	-40	105	Ld-Ld	-	500	150	240	5	N/A	1, 5a
241KS34	5	150	AC	1	N/A	-40	105	Ld-Ld	-	780	150	240	20	N/A	1, 5a
271KC07	5	175	AC	1	N/A	-40	105	Ld-Ld	-	630	175	270	0.5	N/A	1, 5a
271KC10	5	175	AC	1	N/A	-40	105	Ld-Ld	-	860	175	270	3	N/A	1, 5a
271KC14	5	175	AC	1	N/A	-40	105	Ld-Ld	-	760	175	270	3	N/A	1, 5a
271KC20	5	175	AC	1	N/A	-40	105	Ld-Ld	-	670	175	270	3	N/A	1, 5a
271KC25	5	175	AC	1	N/A	-40	105	Ld-Ld	-	680	175	270	5	N/A	1, 5a
271KD32	5	175	AC	1	N/A	-40	105	Ld-Ld	-	670	175	270	10	N/A	1, 5a
271KD40	5	175	AC	1	N/A	-40	105	Ld-Ld	-	800	175	270	20	N/A	1, 5a
271KR34	5	175	AC	1	N/A	-40	105	Ld-Ld	-	790	175	270	20	N/A	1, 5a
271KS20	5	175	AC	1	N/A	-40	105	Ld-Ld	-	620	175	270	5	N/A	1, 5a
271KS22	5	175	AC	1	N/A	-40	105	Ld-Ld	-	570	175	270	5	N/A	1, 5a
271KS34	5	175	AC	1	N/A	-40	105	Ld-Ld	-	850	175	270	20	N/A	1, 5a
301KC07	5	190	AC	1	N/A	-40	105	Ld-Ld	-	680	190	300	0.5	N/A	1, 5a
301KC10	5	190	AC	1	N/A	-40	105	Ld-Ld	-	930	190	300	3	N/A	1, 5a
301KC14	5	190	AC	1	N/A	-40	105	Ld-Ld	-	820	190	300	3	N/A	1, 5a
301KC20	5	190	AC	1	N/A	-40	105	Ld-Ld	-	720	190	300	3	N/A	1, 5a
301KC25	5	190	AC	1	N/A	-40	105	Ld-Ld	-	730	190	300	5	N/A	1, 5a
301KR34	5	190	AC	1	N/A	-40	105	Ld-Ld	-	830	190	300	20	N/A	1, 5a
301KS20	5	190	AC	1	N/A	-40	105	Ld-Ld	-	670	190	300	5	N/A	1, 5a

301KS22	5	190	AC	1	N/A	-40	105	Ld-Ld	-	610	190	300	5	N/A	1, 5a
301KS34	5	190	AC	1	N/A	-40	105	Ld-Ld	-	900	190	300	20	N/A	1, 5a
32D102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2070	625	1000	10	N/A	1, 5a
32D112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2250	680	1100	10	N/A	1, 5a
32D122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2480	750	1200	10	N/A	1, 5a
32D181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	490	115	180	10	N/A	1, 5a
32D201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	530	130	200	10	N/A	1, 5a
32D221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	560	140	220	10	N/A	1, 5a
32D241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	590	150	240	10	N/A	1, 5a
32D271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	670	175	270	10	N/A	1, 5a
32D301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	710	190	300	10	N/A	1, 5a
32D331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	770	210	330	10	N/A	1, 5a
32D361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	830	230	360	10	N/A	1, 5a
32D391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	900	250	390	10	N/A	1, 5a
32D431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	990	275	430	10	N/A	1, 5a
32D471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1080	300	470	10	N/A	1, 5a
32D511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1150	320	510	10	N/A	1, 5a
32D561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1250	350	560	10	N/A	1, 5a
32D621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1380	385	620	10	N/A	1, 5a
32D681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1500	420	680	10	N/A	1, 5a
32D711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1560	440	710	10	N/A	1, 5a
32D751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1630	460	750	10	N/A	1, 5a
32D781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1710	485	780	10	N/A	1, 5a

32D821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1790	510	820	10	N/A	1, 5a
32D911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1920	550	910	10	N/A	1, 5a
32D951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2000	575	950	10	N/A	1, 5a
331KC07	5	210	AC	1	N/A	-40	105	Ld-Ld	-	750	210	330	0.5	N/A	1, 5a
331KC10	5	210	AC	1	N/A	-40	105	Ld-Ld	-	1010	210	330	3	N/A	1, 5a
331KC14	5	210	AC	1	N/A	-40	105	Ld-Ld	-	900	210	330	3	N/A	1, 5a
331KC20	5	210	AC	1	N/A	-40	105	Ld-Ld	-	780	210	330	3	N/A	1, 5a
331KC25	5	210	AC	1	N/A	-40	105	Ld-Ld	-	780	210	330	5	N/A	1, 5a
331KR34	5	210	AC	1	N/A	-40	105	Ld-Ld	-	880	210	330	20	N/A	1, 5a
331KS20	5	210	AC	1	N/A	-40	105	Ld-Ld	-	740	210	330	5	N/A	1, 5a
331KS22	5	210	AC	1	N/A	-40	105	Ld-Ld	-	670	210	330	5	N/A	1, 5a
331KS34	5	210	AC	1	N/A	-40	105	Ld-Ld	-	950	210	330	20	N/A	1, 5a
34R102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2070	625	1000	20	N/A	1, 5a
34R112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2230	680	1100	20	N/A	1, 5a
34R122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2430	750	1200	20	N/A	1, 5a
34R181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	620	115	180	20	N/A	1, 5a
34R201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	660	130	200	20	N/A	1, 5a
34R221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	690	140	220	20	N/A	1, 5a
34R241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	720	150	240	20	N/A	1, 5a
34R271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	790	175	270	20	N/A	1, 5a
34R301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	830	190	300	20	N/A	1, 5a
34R331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	880	210	330	20	N/A	1, 5a
34R361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	940	230	360	20	N/A	1, 5a

34R391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1000	250	390	20	N/A	1, 5a
34R431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1080	275	430	20	N/A	1, 5a
34R471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1150	300	470	20	N/A	1, 5a
34R511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1210	320	510	20	N/A	1, 5a
34R561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1310	350	560	20	N/A	1, 5a
34R621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1410	385	620	20	N/A	1, 5a
34R681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1520	420	680	20	N/A	1, 5a
34R711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1580	440	710	20	N/A	1, 5a
34R751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1640	460	750	20	N/A	1, 5a
34R781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1720	485	780	20	N/A	1, 5a
34R821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1800	510	820	20	N/A	1, 5a
34R911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1920	550	910	20	N/A	1, 5a
34R951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2000	575	950	20	N/A	1, 5a
34S102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2350	625	1000	20	N/A	1, 5a
34S112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2530	680	1100	20	N/A	1, 5a
34S122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2760	750	1200	20	N/A	1, 5a
34S181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	680	115	180	20	N/A	1, 5a
34S201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	720	130	200	20	N/A	1, 5a
34S221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	750	140	220	20	N/A	1, 5a
34S241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	780	150	240	20	N/A	1, 5a
34S271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	850	175	270	20	N/A	1, 5a
34S301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	900	190	300	20	N/A	1, 5a
34S331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	950	210	330	20	N/A	1, 5a

34S361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1010	230	360	20	N/A	1, 5a
34S391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1090	250	390	20	N/A	1, 5a
34S431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1180	275	430	20	N/A	1, 5a
34S471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1280	300	470	20	N/A	1, 5a
34S511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1360	320	510	20	N/A	1, 5a
34S561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1470	350	560	20	N/A	1, 5a
34S621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1610	385	620	20	N/A	1, 5a
34S681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1740	420	680	20	N/A	1, 5a
34S711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1800	440	710	20	N/A	1, 5a
34S751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1870	460	750	20	N/A	1, 5a
34S781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1950	485	780	20	N/A	1, 5a
34S821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2020	510	820	20	N/A	1, 5a
34S911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2150	550	910	20	N/A	1, 5a
34S951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2230	575	950	20	N/A	1, 5a
361KC07	5	230	AC	1	N/A	-40	105	Ld-Ld	-	820	230	360	0.5	N/A	1, 5a
361KC10	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1100	230	360	3	N/A	1, 5a
361KC14	5	230	AC	1	N/A	-40	105	Ld-Ld	-	980	230	360	3	N/A	1, 5a
361KC20	5	230	AC	1	N/A	-40	105	Ld-Ld	-	840	230	360	3	N/A	1, 5a
361KC25	5	230	AC	1	N/A	-40	105	Ld-Ld	-	840	230	360	5	N/A	1, 5a
361KR34	5	230	AC	1	N/A	-40	105	Ld-Ld	-	940	230	360	20	N/A	1, 5a
361KS20	5	230	AC	1	N/A	-40	105	Ld-Ld	-	800	230	360	5	N/A	1, 5a
361KS22	5	230	AC	1	N/A	-40	105	Ld-Ld	-	720	230	360	5	N/A	1, 5a
361KS34	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1010	230	360	20	N/A	1, 5a

390KS20	5	25	AC	1	N/A	-40	105	Ld-Ld	-	170	25	39	2	N/A	1, 5a
390KS22	5	25	AC	1	N/A	-40	105	Ld-Ld	-	140	25	39	2	N/A	1, 5a
391KC07	5	250	AC	1	N/A	-40	105	Ld-Ld	-	890	250	390	0.5	N/A	1, 5a
391KC10	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1180	250	390	3	N/A	1, 5a
391KC14	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1060	250	390	3	N/A	1, 5a
391KC20	5	250	AC	1	N/A	-40	105	Ld-Ld	-	900	250	390	3	N/A	1, 5a
391KC25	5	250	AC	1	N/A	-40	105	Ld-Ld	-	900	250	390	5	N/A	1, 5a
391KD32	5	250	AC	1	N/A	-40	105	Ld-Ld	-	900	250	390	10	N/A	1, 5a
391KD40	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1020	250	390	20	N/A	1, 5a
391KD53	5	250	AC	1	N/A	-40	105	Ld-Ld	-	950	250	390	20	N/A	1, 5a
391KR34	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1000	250	390	20	N/A	1, 5a
391KS20	5	250	AC	1	N/A	-40	105	Ld-Ld	-	860	250	390	5	N/A	1, 5a
391KS22	5	250	AC	1	N/A	-40	105	Ld-Ld	-	780	250	390	5	N/A	1, 5a
391KS34	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1090	250	390	20	N/A	1, 5a
40D102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2190	625	1000	20	N/A	1, 5a
40D112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2390	680	1100	20	N/A	1, 5a
40D122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2650	750	1200	20	N/A	1, 5a
40D181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	630	115	180	20	N/A	1, 5a
40D201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	670	130	200	20	N/A	1, 5a
40D221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	700	140	220	20	N/A	1, 5a
40D241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	730	150	240	20	N/A	1, 5a
40D271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	800	175	270	20	N/A	1, 5a
40D301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	840	190	300	20	N/A	1, 5a

40D331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	890	210	330	20	N/A	1, 5a
40D361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	950	230	360	20	N/A	1, 5a
40D391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1020	250	390	20	N/A	1, 5a
40D431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1110	275	430	20	N/A	1, 5a
40D471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1200	300	470	20	N/A	1, 5a
40D511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1270	320	510	20	N/A	1, 5a
40D561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1370	350	560	20	N/A	1, 5a
40D621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1500	385	620	20	N/A	1, 5a
40D681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1620	420	680	20	N/A	1, 5a
40D711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1680	440	710	20	N/A	1, 5a
40D751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1740	460	750	20	N/A	1, 5a
40D781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1820	485	780	20	N/A	1, 5a
40D821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1900	510	820	20	N/A	1, 5a
40D911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2020	550	910	20	N/A	1, 5a
40D951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2100	575	950	20	N/A	1, 5a
431KC07	5	275	AC	1	N/A	-40	105	Ld-Ld	-	980	275	430	0.5	N/A	1, 5a
431KC10	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1260	275	430	3	N/A	1, 5a
431KC14	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1150	275	430	3	N/A	1, 5a
431KC20	5	275	AC	1	N/A	-40	105	Ld-Ld	-	980	275	430	3	N/A	1, 5a
431KC25	5	275	AC	1	N/A	-40	105	Ld-Ld	-	990	275	430	5	N/A	1, 5a
431KD32	5	275	AC	1	N/A	-40	105	Ld-Ld	-	990	275	430	10	N/A	1, 5a
431KD40	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1110	275	430	20	N/A	1, 5a
431KD53	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1030	275	430	20	N/A	1, 5a

431KR34	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1080	275	430	20	N/A	1, 5a
431KS20	5	275	AC	1	N/A	-40	105	Ld-Ld	-	940	275	430	5	N/A	1, 5a
431KS22	5	275	AC	1	N/A	-40	105	Ld-Ld	-	850	275	430	5	N/A	1, 5a
431KS34	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1180	275	430	20	N/A	1, 5a
470KS20	5	30	AC	1	N/A	-40	105	Ld-Ld	-	200	30	47	2	N/A	1, 5a
470KS22	5	30	AC	1	N/A	-40	105	Ld-Ld	-	150	30	47	2	N/A	1, 5a
471KC07	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1090	300	470	0.5	N/A	1, 5a
471KC10	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1340	300	470	3	N/A	1, 5a
471KC14	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1240	300	470	3	N/A	1, 5a
471KC20	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1060	300	470	3	N/A	1, 5a
471KC25	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1080	300	470	5	N/A	1, 5a
471KD32	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1080	300	470	10	N/A	1, 5a
471KD40	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1200	300	470	20	N/A	1, 5a
471KD53	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1100	300	470	20	N/A	1, 5a
471KR34	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1150	300	470	20	N/A	1, 5a
471KS20	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1010	300	470	5	N/A	1, 5a
471KS22	5	300	AC	1	N/A	-40	105	Ld-Ld	-	930	300	470	5	N/A	1, 5a
471KS34	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1280	300	470	20	N/A	1, 5a
511KC07	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1170	320	510	0.5	N/A	1, 5a
511KC10	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1400	320	510	3	N/A	1, 5a
511KC14	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1310	320	510	3	N/A	1, 5a
511KC20	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1120	320	510	3	N/A	1, 5a
511KC25	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1150	320	510	5	N/A	1, 5a

511KD32	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1150	320	510	10	N/A	1, 5a
511KD40	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1270	320	510	20	N/A	1, 5a
511KD53	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1160	320	510	20	N/A	1, 5a
511KE22(#)	4CA	320	AC	1	n/a	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1,5a
511KM22(#)	4CA	320	AC	1	n/a	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1,5a
511KN22(#)	4CA	320	AC	1	n/a	-40	85	Ld-Ld	-	1040	320	510	5	N/A	1,5a
511KR34	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1210	320	510	20	N/A	1, 5a
511KS20	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1070	320	510	5	N/A	1, 5a
511KS22	5	320	AC	1	N/A	-40	105	Ld-Ld	-	990	320	510	5	N/A	1, 5a
511KS34	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1360	320	510	20	N/A	1, 5a
53D102K	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2020	625	1000	20	N/A	1, 5a
53D112K	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2220	680	1100	20	N/A	1, 5a
53D122K	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2480	750	1200	20	N/A	1, 5a
53D181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	620	115	180	20	N/A	1, 5a
53D201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	660	130	200	20	N/A	1, 5a
53D221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	680	140	220	20	N/A	1, 5a
53D241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	700	150	240	20	N/A	1, 5a
53D271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	760	175	270	20	N/A	1, 5a
53D301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	800	190	300	20	N/A	1, 5a
53D331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	840	210	330	20	N/A	1, 5a
53D361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	890	230	360	20	N/A	1, 5a
53D391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	950	250	390	20	N/A	1, 5a
53D431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1030	275	430	20	N/A	1, 5a

53D471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1100	300	470	20	N/A	1, 5a
53D511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1160	320	510	20	N/A	1, 5a
53D561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1260	350	560	20	N/A	1, 5a
53D621K	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1360	385	620	20	N/A	1, 5a
53D681K	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1470	420	680	20	N/A	1, 5a
53D711K	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1530	440	710	20	N/A	1, 5a
53D751K	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1590	460	750	20	N/A	1, 5a
53D781K	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1660	485	780	20	N/A	1, 5a
53D821K	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1740	510	820	20	N/A	1, 5a
53D911K	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1860	550	910	20	N/A	1, 5a
53D951K	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1930	575	950	20	N/A	1, 5a
560KS20	5	35	AC	1	N/A	-40	105	Ld-Ld	-	220	35	56	2	N/A	1, 5a
560KS22	5	35	AC	1	N/A	-40	105	Ld-Ld	-	160	35	56	2	N/A	1, 5a
561KC07	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1300	350	560	0.5	N/A	1, 5a
561KC10	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1500	350	560	3	N/A	1, 5a
561KC14	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1420	350	560	3	N/A	1, 5a
561KC20	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1220	350	560	3	N/A	1, 5a
561KC25	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1250	350	560	5	N/A	1, 5a
561KD32	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1250	350	560	10	N/A	1, 5a
561KD40	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1370	350	560	20	N/A	1, 5a
561KD53	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1260	350	560	20	N/A	1, 5a
561KR34	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1310	350	560	20	N/A	1, 5a
561KS20	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1170	350	560	5	N/A	1, 5a

561KS22	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1070	350	560	5	N/A	1, 5a
561KS34	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1470	350	560	20	N/A	1, 5a
621KC07	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1450	385	620	0.5	N/A	1, 5a
621KC10	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1610	385	620	3	N/A	1, 5a
621KC14	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1540	385	620	3	N/A	1, 5a
621KC20	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1330	385	620	3	N/A	1, 5a
621KC25	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1380	385	620	5	N/A	1, 5a
621KD32	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1380	385	620	10	N/A	1, 5a
621KD40	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1500	385	620	20	N/A	1, 5a
621KD53	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1360	385	620	20	N/A	1, 5a
621KR34	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1410	385	620	20	N/A	1, 5a
621KS20	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1270	385	620	5	N/A	1, 5a
621KS22	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1070	385	620	5	N/A	1, 5a
621KS34	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1610	385	620	20	N/A	1, 5a
680KS20	5	40	AC	1	N/A	-40	105	Ld-Ld	-	250	40	68	2	N/A	1, 5a
680KS22	5	40	AC	1	N/A	-40	105	Ld-Ld	-	170	40	68	2	N/A	1, 5a
681KC07	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1600	420	680	0.5	N/A	1, 5a
681KC10	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1720	420	680	3	N/A	1, 5a
681KC14	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1670	420	680	3	N/A	1, 5a
681KC20	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1440	420	680	3	N/A	1, 5a
681KC25	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1500	420	680	5	N/A	1, 5a
681KD32	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1500	420	680	10	N/A	1, 5a
681KD40	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1620	420	680	20	N/A	1, 5a

681KD53	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1470	420	680	20	N/A	1, 5a
681KR34	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1520	420	680	20	N/A	1, 5a
681KS20	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1380	420	680	5	N/A	1, 5a
681KS22	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1280	420	680	5	N/A	1, 5a
681KS34	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1740	420	680	20	N/A	1, 5a
711KC07	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1680	440	710	0.5	N/A	1, 5a
711KC10	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1780	440	710	3	N/A	1, 5a
711KC14	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1740	440	710	3	N/A	1, 5a
711KC20	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1500	440	710	3	N/A	1, 5a
711KC25	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1570	440	710	5	N/A	1, 5a
711KD32	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1560	440	710	10	N/A	1, 5a
711KD40	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1680	440	710	20	N/A	1, 5a
711KD53	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1530	440	710	20	N/A	1, 5a
711KR34	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1580	440	710	20	N/A	1, 5a
711KS22	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1340	440	710	5	N/A	1, 5a
711KS34	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1800	440	710	20	N/A	1, 5a
751KC07	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1770	460	750	0.5	N/A	1, 5a
751KC10	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1870	460	750	3	N/A	1, 5a
751KC14	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1830	460	750	3	N/A	1, 5a
751KC20	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1560	460	750	3	N/A	1, 5a
751KC25	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1630	460	750	5	N/A	1, 5a
751KD32	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1630	460	750	10	N/A	1, 5a
751KD40	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1740	460	750	20	N/A	1, 5a

751KD53	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1590	460	750	20	N/A	1, 5a
751KR34	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1640	460	750	20	N/A	1, 5a
751KS22	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1410	460	750	5	N/A	1, 5a
751KS34	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1870	460	750	20	N/A	1, 5a
781KC07	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1870	485	780	0.5	N/A	1, 5a
781KC10	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1980	485	780	3	N/A	1, 5a
781KC14	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1940	485	780	3	N/A	1, 5a
781KC20	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1640	485	780	3	N/A	1, 5a
781KC25	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1710	485	780	5	N/A	1, 5a
781KD32	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1710	485	780	10	N/A	1, 5a
781KD40	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1820	485	780	20	N/A	1, 5a
781KD53	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1660	485	780	20	N/A	1, 5a
781KR34	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1720	485	780	20	N/A	1, 5a
781KS22	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1490	485	780	5	N/A	1, 5a
781KS34	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1950	485	780	20	N/A	1, 5a
820KS20	5	50	AC	1	N/A	-40	105	Ld-Ld	-	230	50	82	3	N/A	1, 5a
820KS22	5	50	AC	1	N/A	-40	105	Ld-Ld	-	220	50	82	3	N/A	1, 5a
821KC07	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1980	510	820	0.5	N/A	1, 5a
821KC10	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2100	510	820	3	N/A	1, 5a
821KC14	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2050	510	820	3	N/A	1, 5a
821KC20	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1720	510	820	3	N/A	1, 5a
821KC25	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1790	510	820	5	N/A	1, 5a
821KD32	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1790	510	820	10	N/A	1, 5a

821KD40	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1900	510	820	20	N/A	1, 5a
821KD53	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1740	510	820	20	N/A	1, 5a
821KR34	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1800	510	820	20	N/A	1, 5a
821KS22	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1570	510	820	5	N/A	1, 5a
821KS34	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2020	510	820	20	N/A	1, 5a
911KC10	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2280	550	910	3	N/A	1, 5a
911KC14	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2230	550	910	3	N/A	1, 5a
911KC20	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1850	550	910	3	N/A	1, 5a
911KC25	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1920	550	910	5	N/A	1, 5a
911KD32	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1920	550	910	10	N/A	1, 5a
911KD40	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2020	550	910	20	N/A	1, 5a
911KD53	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1860	550	910	20	N/A	1, 5a
911KE22(#)	4CA	550	AC	1	n/a	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1,5a
911KM22(#)	4CA	550	AC	1	n/a	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1,5a
911KN22(#)	4CA	550	AC	1	n/a	-40	85	Ld-Ld	-	1730	550	910	5	N/A	1,5a
911KR34	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1920	550	910	20	N/A	1, 5a
911KS22	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1700	550	910	5	N/A	1, 5a
911KS34	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2150	550	910	20	N/A	1, 5a
951KC10	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2390	575	950	3	N/A	1, 5a
951KC14	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2340	575	950	3	N/A	1, 5a
951KC20	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1930	575	950	3	N/A	1, 5a
951KC25	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2000	575	950	5	N/A	1, 5a
951KD32	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2000	575	950	10	N/A	1, 5a

951KD40	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2100	575	950	20	N/A	1, 5a
951KD53	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1930	575	950	20	N/A	1, 5a
951KR34	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2000	575	950	20	N/A	1, 5a
951KS22	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1780	575	950	5	N/A	1, 5a
951KS34	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2230	575	950	20	N/A	1, 5a
AT#(1)64/HF#(1)64	5	45	AC	1	N/A	-40	85	Ld-Ld	-	260	45	N/A	3	N/A	1
"2R(@)XXXM+"															
2R(@)150M+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	970	220	N/A	10	N/A	1,3
2R(@)230M+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	960	220	N/A	10	N/A	1,3
2R(@)300M+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	960	220	N/A	10	N/A	1,3
2R(@)350M+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	970	220	N/A	10	N/A	1,3
2R(@)470M+	5	230	AC	1	N/A	-40	125	Ld-Ld	-	960	230	N/A	10	N/A	1,3
2R(@)600M+	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1370	275	N/A	10	N/A	1,3
2R(@)800M+	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1570	275	N/A	10	N/A	1,3
"2R(@)XXXL+"															
2R(@)150L+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	970	220	N/A	10	N/A	1,3
2R(@)230L+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	960	220	N/A	10	N/A	1,3
2R(@)300L+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	960	220	N/A	10	N/A	1,3
2R(@)350L+	5	220	AC	1	N/A	-40	125	Ld-Ld	-	970	220	N/A	10	N/A	1,3
2R(@)470L+	5	230	AC	1	N/A	-40	125	Ld-Ld	-	960	230	N/A	10	N/A	1,3
2R(@)600L+	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1370	275	N/A	10	N/A	1,3
2R(@)800L+	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1570	275	N/A	10	N/A	1,3

Notes:

1. Suitable for Factory wiring only.
 2. Suitable for Field and Factory wiring.
 3. Series External Impedance required, see Electrical Ratings in the Recognition report.
 4. Series External Overcurrent Protection required, see Electrical Ratings in the Recognition report.
 5. Body of discrete component metal-oxide varistors (MOVs) flammability:
 - a) Min. V-0 or VTM-0.
 - b) Min. V-1 or VTM-1.
 - c) Complies with IEC 60950-1, Edition 2.2, Annex Q/IEC62368-1 Annex G.8.2 needle flame testing requirements.
 - d) Complies with IEC 60065, Edition 7.2, Annex G.1.1 needle flame testing requirements.
- # - May be followed by A thru Z or 0 thru 9, followed by 100, 200, maybe followed by C.
- #(1) - May be any character from A to Z or any number from 0 to 9, f/b - or blank, may be f/b 0.
- #(2) - - Lead type: Lead: May be followed by any alphanumeric character (A thru Z or 1 thru 9 or blank) or combine or may be followed by Customer Code for different customer, Except for M. SMD: May be followed by M.
- \$\$ - May be followed by L,C,S or any alphanumeric character(A thru or 1 thru 9)or combine or may be followed by customer code for different customer.
- % - All models may be prefix or/and suffix with A thru Z or/and 0 thru 9 or/and any symbol, numbers, letters, except #, (a), +
- (!) - where # may be any character from A to Z or any number from 0 to 9.
- (#) - Each model may be prefixed by "ZOV" and/or suffixed by "X", where "X" may be blank, any character from A to Z or any number from 0 to 9.
- (*) - May be followed by any alphanumeric character (A thru Z or 1 thru 9 or null character) or combine or May be followed by Customer Code for different customer;
- (@) - (@) represents K, H, M, O, P, W, Z, Y, F, S, E, T, A, B, N, C, L or blank
- (A) - where (A) may be M, N or E
- * - Each model may be prefixed by "ZOV" and/or suffixed by "X", where "X" may be blank, any character from A to Z or any number from 0 to 9.
- + - May be followed by +, all models may be prefix or/and suffix with A thru Z or/and 0 thru 9. Each model may be prefixed by "XXX" and/or suffixed by "XXX", where "X" may be blank, any character from A to Z or any number from 0 to 9.

Marking: Company name, model designation and the Recognized Component Mark for Canada,



The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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