

PHB

Switching polypropylene film capacitors



Features

- High Current
- High dvdt
- 2, 4, 6 leads
- High pulse current ratings

Applications

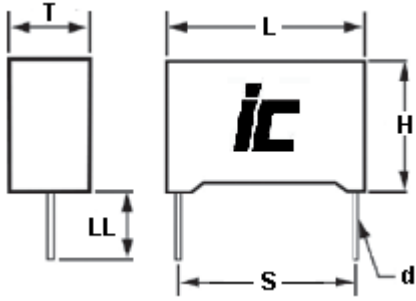
- Induction Heaters
- Resonant Circuit
- Switching power supplies
- Motor speed controls

Specifications

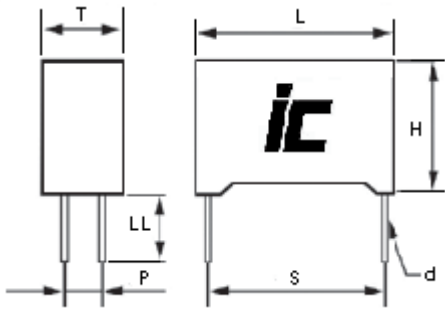
Operating Temperature Range	-40°C to +100°C					
Capacitance Tolerance	±10% at 1 kHz, 25°C ±5% optional					
Non-Recurrent SVDC	WVDC	250	330	400	600	700
	VAC	400	500	600	800	1000
AC voltage (50/60 Hz)	WVDC	250	330	400	600	700
	VAC	160	220	275	350	400
For T>+85°C , The voltage (DC/AC) must be decreased by (1.5/2.5)% per °C						
Dissipation Factor (MAX) 25°C	Frequency (kHz)	C≤5uF	5<C≤25uF	C>25uF		
	1	0.05%	0.08%	0.1%		
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	Insulation Resistance					
	30000 MΩxuF (not to exceed 30GΩ)					
Self Inductance	<1 nano-Henry per mm of lead spacing					
Capacitance Drift Factor	<0.5% after 2 years at 40°C					
Life Expectancy	100000 Hours @WVDC					
	30000 Hours @ VAC					
Capacitance Change	≤3% of initially measured value					
Failure quota	300/ Billion component hours					
Damp Heat test	56 days at40°C with 90 to 95%RH, +40°C and no voltage applied					
	Capacitance Change	≤2% of initially measured value				
	Dissipation Factor	≤0.001 at 1kHz and 25°C				
	Insulation Resistance	≥50% of maximum specified value				
Self Inductance	<1 nano-Henry per mm of lead spacing					
Capacitance Drift Factor	<0.5% after 2 years at 40°C					
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C					
Dielectric Strength	Terminal to Terminal			Terminal to case		
	160% of rated VDCApplied for 10 seconds or 150% VAC applied for 2 Seconds and 25°C			3kVAC @ 50/60 Hz applied between terminals and case for 60 seconds at 25°C		
Dielectric	Polypropylene					
Construction	Metallized film					
Coating	Flame Retardant plastic box with epoxy resin (UL94V-0)					
Leads	Lead free tinned copper leads					

PHB

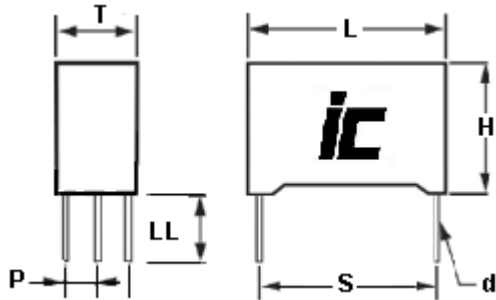
Switching polypropylene film capacitors



L	26.5	32	32	32	42.5	57.5
H	ALL	≤20	20<H≤24.5	>24.5	ALL	ALL
T	ALL	ALL	≤18	ALL	ALL	ALL
S	22.5	27.5	27.5	27.5	37.5	52.5
d	0.8	0.8	1.0	1.2	1.2	1.2



L	32	42.5	57.5
S	27.5	37.5	52.5
d	1.2	1.2	1.2



L	42.5	57.5
S	37.5	52.5
d	1.2	1.2

PHB

Metallized Polypropylene,
High Frequency radial lead
box

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)	S (MM)	d (MM)	P (MM)	# Leads
0.1	850	104PHB850K2H	300	4	15	32x17x9	27.5	0.8		2
0.1	850	104PHB850K2G	375	4	12.8	26.5x16x7	22.5	0.8		2
0.15	700	154PHB700K2G	135	4	13.4	26.5x16x7	22.5	0.8		2
0.15	850	154PHB850K2G	375	5	9.7	26.5x18.5x10	22.5	0.8		2
0.15	850	154PHB850K2H	300	5.5	10.7	32x20x11	27.5	0.8		2
0.22	600	224PHB600K2G	95	3.5	12.8	26.5x16x7	22.5	0.8		2
0.22	700	224PHB700K2G	135	4.5	10.7	26.5x17x8.5	22.5	0.8		2
0.22	850	224PHB850K2G	375	7	7.6	26.5x22x13	22.5	0.8		2
0.22	850	224PHB850K2H	300	6.5	8.3	32x20x11	27.5	0.8		2
0.33	600	334PHB600K2G	95	5	9.5	26.5x17x8.5	22.5	0.8		2
0.33	700	334PHB700K2G	135	6	8.5	26.5x20x11	22.5	0.8		2
0.33	700	334PHB700K2H	105	6	10.7	32x20x11	27.5	0.8		2
0.33	850	334PHB850K2H	300	8	6.3	32x22x13	27.5	1		2
0.47	400	474PHB400K2G	75	4.5	8.6	26.5x16x7	22.5	0.8		2
0.47	600	474PHB600K2G	95	6	8.3	26.5x18.5x10	22.5	0.8		2
0.47	600	474PHB600K2H	75	6	9.5	32x20x11	27.5	0.8		2
0.47	700	474PHB700K2H	105	7.5	7.5	32x22x13	27.5	1		2
0.47	850	474PHB850K2H	300	9.5	5.1	32x24.5x15	27.5	1.2		2
0.68	330	684PHB330K2G	60	5	8.9	26.5x16x7	22.5	0.8		2
0.68	400	684PHB400K2G	75	6.5	7.1	26.5x18.5x10	22.5	0.8		2
0.68	400	684PHB400K2H	55	6.5	8.8	32x20x11	27.5	0.8		2
0.68	600	684PHB600K2H	75	7	7.6	32x20x11	27.5	0.8		2
0.68	600	684PHB600K2G	95	7	6.9	26.5x22x13	22.5	0.8		2
0.68	700	684PHB700K2H	105	9	6.1	32x24.5x15	27.5	1		2
0.68	850	684PHB850K2H	300	14	3.8	32x33x18	27.5	1.2		2
0.68	850	684PHB850K4H	300	16	3.1	32x33x18	27.5	1.2	5.1	4
1	250	105PHB250K2G	50	4.5	7.6	26.5x16x7	22.5	0.8		2
1	330	105PHB330K2G	60	6.5	7	26.5x18.5x10	22.5	0.8		2
1	400	105PHB400K2G	75	7.5	5.8	26.5x20x11	22.5	0.8		2
1	400	105PHB400K2H	55	7	6.7	32x20x11	27.5	0.8		2
1	600	105PHB600K2H	75	8.5	6.1	32x22x13	27.5	1		2
1	700	105PHB700K2H	105	13	4.6	32x33x18	27.5	1.2		2
1	700	105PHB700K4H	105	15.5	3.9	32x33x18	27.5	1.2	10.2	4
1	850	105PHB850K4H	300	20.5	2.4	32x37x22	27.5	1.2	10.2	4
1	850	105PHB850K2H	300	14	3.1	32x37x22	27.5	1.2		2
1	850	105PHB850K2J	200	13	4.2	42.5x28x17	37.5	1.2		2
1.5	250	155PHB250K2G	50	6.5	6.1	26.5x17x8.5	22.5	0.8		2
1.5	250	155PHB250K2H	40	6.5	7.1	32x20x11	27.5	0.8		2
1.5	330	155PHB330K2H	45	7.5	6.1	32x20x11	27.5	0.8		2
1.5	400	155PHB400K2H	55	9	5.3	32x22x13	27.5	1		2
1.5	600	155PHB600K2H	75	11.5	4.6	32x28x14	27.5	1.2		2
1.5	700	155PHB700K2H	105	14	4	32x37x22	37.5	1.2		2
1.5	700	155PHB700K2J	70	12	5.6	42.5x28x17	37.5	1.2		2
1.5	700	155PHB700K4H	105	18	3.3	32x37x22	27.5	1.2	10.2	4
1.5	850	155PHB850K2J	200	14	3.4	42.5x30x22	37.5	1.2		2
2	250	205PHB250K2G	50	7.5	5.3	26.5x20x11	22.5	0.8		2
2	250	205PHB250K2H	40	7	6.1	32x20x11	27.5	0.8		2
2	330	205PHB330K2H	45	8.5	5.3	32x22x13	27.5	1		2
2	400	205PHB400K2H	55	10	4.7	32x24.5x15	27.5	1.2		2
2	600	205PHB600K2H	75	14	3.9	32x33x18	27.5	1.2		2
2	600	205PHB600K4H	75	16	3.2	32x33x18	27.5	1.2	10.2	4
2	700	205PHB700K2H	105	14	3.5	32x37x22	27.5	1.2		2
2	700	205PHB700K2J	70	13	4.9	42.5x30x22	37.5	1.2		2
2	700	205PHB700K4H	105	20	2.8	32x37x22	27.5	1.2	10.2	4
2	850	205PHB850K4J	200	22.5	2.3	42.5x37x28	37.5	1.2	10.2	4
2	850	205PHB850K2J	200	14	3	42.5x37x28	37.5	1.2		2
2.2	250	225PHB250K2G	50	7.5	5.1	26.5x20x11	22.5	0.8		2
2.2	250	225PHB250K2H	40	7	5.8	32x20x11	27.5	0.8		2

PHB

Metallized Polypropylene,
High Frequency radial lead
box

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)	S (MM)	d (MM)	P (MM)	# Leads
2.2	330	225PHB330K2H	45	9	5.1	32x22x13	27.5	1		2
2.2	400	225PHB400K2H	55	10.5	4.4	32x24.5x15	27.5	1.2		2
2.2	600	225PHB600K2H	75	14	3.9	32x33x18	27.5	1.2		2
2.2	600	225PHB600K4H	75	16.5	3.2	32x33x18	27.5	1.2	10.2	4
2.2	700	225PHB700K2J	70	12	4.7	42.5x30x22	37.5	1.2		2
2.2	700	225PHB700K4J	70	15.5	4	42.5x37x28	37.5	1.2	10.2	2
2.2	850	225PHB850K2J	200	14	3	42.5x37x28	37.5	1.2		2
2.2	850	225PHB850K4J	200	23	2.3	42.5x37x28	37.5	1.2	10.2	4
2.5	250	255PHB250K2H	40	8	5.4	32x20x11	27.5	0.8		2
2.5	330	255PHB330K2H	45	9.5	4.9	32x22x13	27.5	1		2
2.5	400	255PHB400K2H	55	11	4.2	32x24.5x15	27.5	1.2		2
2.5	850	255PHB850K2J	200	14	2.8	42.5x37x28	37.5	1.2		2
2.5	850	255PHB850K4J	200	23	2.1	42.5x37x28	37.5	1.2	20.3	4
3	250	305PHB250K2H	40	9	4.8	32x22x13	27.5	1		2
3	330	305PHB330K2H	45	10.5	4.3	32x24.5x15	27.5	1		2
3	400	305PHB400K4H	55	17	2.9	32x33x18	27.5	1.2	5.1	4
3	400	305PHB400K2H	55	14	3.6	32x33x18	27.5	1.2		2
3	600	305PHB600K2H	75	14	3.3	32x37x22	27.5	1.2		2
3	600	305PHB600K2J	55	14	4.3	42.5x30x22	37.5	1.2		2
3	600	305PHB600K4H	75	21	2.6	32x37x22	27.5	1.2	10.2	4
3	700	305PHB700K4J	70	20	3.2	42.5x37x28	37.5	1.2	10.2	4
3	700	305PHB700K2J	70	14	3.9	42.5x37x28	37.5	1.2		2
3	850	305PHB850K2J	200	14	2.4	42.5x45x30	37.5	1.2		2
3	850	305PHB850K4J	200	27	1.8	42.5x45x30	37.5	1.2	20.3	4
3.3	250	335PHB250K2H	40	9.5	4.3	32x22x13	27.5	1		2
3.3	330	335PHB330K2H	45	10.5	4.1	32x24.5x15	27.5	1		2
3.3	400	335PHB400K4H	55	17.5	2.8	32x33x18	27.5	1.2	5.1	4
3.3	400	335PHB400K2H	55	14	3.5	32x33x18	27.5	1.2		2
3.3	600	335PHB600K2H	75	14	3.2	32x37x22	27.5	1.2		2
3.3	600	335PHB600K2J	55	14	4.1	42.5x30x22	37.5	1.2		2
3.3	600	335PHB600K4H	75	21.5	2.5	32x37x22	27.5	1.2	10.2	4
3.3	700	335PHB700K4J	70	20.5	3.1	42.5x37x28	37.5	1.2	20.3	4
3.3	700	335PHB700K2J	70	14	3.8	42.5x37x28	37.5	1.2		2
3.3	850	335PHB850K2J	200	14	2.4	42.5x45x30	37.5	1.2		2
3.3	850	335PHB850K4J	200	27	1.8	42.5x45x30	37.5	1.2	20.3	4
4	250	405PHB250K2H	40	10.5	3.8	32x22x13	27.5	1		2
4	400	405PHB400K2H	55	14	3.2	32x33x18	27.5	1.2		2
4	400	405PHB400K4H	55	18.5	2.5	32x33x18	27.5	1.2	10.2	4
4	600	405PHB600K4J	55	21	2.9	42.5x37x28	37.5	1.2	10.2	4
4	600	405PHB600K2J	55	14	3.6	42.5x37x28	37.5	1.2		2
4	700	405PHB700K2J	70	14	3.3	42.5x45x30	37.5	1.2		2
4	700	405PHB700K4J	70	22.5	2.7	42.5x45x30	37.5	1.2	20.3	4
4	850	405PHB850K4R	110	25	2.5	57.5x45x30	52.5	1.2	20.3	4
4	850	405PHB850K2R	110	14	3.2	57.5x45x30	52.5	1.2		2
4.7	250	475PHB250K2H	40	12	3.5	32x28x14	27.5	1.2		2
4.7	250	475PHB250K4H	40	15	2.8	32x28x14	27.5	1.2	5.1	4
4.7	330	475PHB330K4H	45	17	2.7	32x33x18	27.5	1.2	5.1	4
4.7	330	475PHB330K2H	45	14	3.4	32x33x18	27.5	1.2		2
4.7	400	475PHB400K2H	55	14	2.8	32x37x22	27.5	1.2		2
4.7	400	475PHB400K2J	40	13.5	3.9	42.5x28x17	37.5	1.2		2
4.7	400	475PHB400K4H	55	21.5	2.1	32x37x22	27.5	1.2	10.2	4
4.7	600	475PHB600K4J	55	22	2.6	42.5x37x28	37.5	1.2	10.2	4
4.7	600	475PHB600K2J	55	14	3.3	42.5x37x28	37.5	1.2		2
4.7	700	475PHB700K2J	70	14	3.1	42.5x45x30	37.5	1.2		2
4.7	700	475PHB700K4J	70	25	2.4	42.5x45x30	37.5	1.2	20.3	4
4.7	850	475PHB850K4R	110	27	2.1	57.5x45x30	52.5	1.2	20.3	4
4.7	850	475PHB850K2R	110	14	2.8	57.5x45x30	52.5	1.2		2
5	250	505PHB250K2H	40	12	3.4	32x28x14	27.5	1.2		2

PHB

Metallized Polypropylene,
High Frequency radial lead
box

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)	S (MM)	d (MM)	P (MM)	# Leads
5	250	505PHB250K4H	40	15	2.7	32x28x14	27.4	1.2	5.1	4
5	330	505PHB330K4H	45	17.5	2.6	32x33x18	27.5	1.2	5.1	4
5	330	505PHB330K2H	45	14	3.3	32x33x18	27.5	1.2		2
5	400	505PHB400K4H	55	22	2.1	32x37x22	27.5	1.2	10.2	4
5	400	505PHB400K2H	55	14	2.8	32x37x22	27.5	1.2		2
5	400	505PHB400K2J	40	14	3.7	42.5x30x22	37.5	1.2		2
5	600	505PHB600K2J	55	14	3.3	42.5x37x28	37.5	1.2		2
5	600	505PHB600K4J	55	22	2.6	42.5x37x28	37.5	1.2	10.2	4
5	700	505PHB700K2J	70	14	3	42.5x45x30	37.5	1.2		2
5	700	505PHB700K4J	70	25.5	2.3	42.5x45x30	37.5	1.2	20.3	4
5.6	850	565PHB850K4R	110	27	2	57.5x50x35	52.5	1.2	20.3	4
5.6	850	565PHB850K2R	110	14	2.7	57.5x50x35	52.5	1.2		2
6	700	605PHB700K2R	40	14	5	57.5x45x30	52.5	1.2		2
6	700	605PHB700K4R	40	20	4.3	57.5x45x30	52.5	1.2	20.3	4
6	850	605PHB850K4R	110	27	2	57.5x50x35	52.5	1.2	20.3	4
6	850	605PHB850K2R	110	14	2.6	57.5x50x35	52.5	1.2		2
6.8	250	685PHB250K2H	40	14	3.1	32x33x18	27.5	1.2		2
6.8	250	685PHB250K4H	40	18	2.4	32x33x18	27.5	1.2	5.1	4
6.8	330	685PHB330K2H	45	14	2.8	32x37x22	27.5	1.2		2
6.8	330	685PHB330K2J	30	14	3.7	42.5x28x17	37.5	1.2		2
6.8	330	685PHB330K4H	45	22	2.1	32x37x22	27.5	1.2	10.2	4
6.8	400	685PHB400K4J	40	21.5	2.6	42.5x37x28	37.5	1.2	10.2	4
6.8	400	685PHB400K2J	40	14	3.3	42.5x30x22	37.5	1.2		2
6.8	600	685PHB600K2J	55	14	2.8	42.5x45x30	37.5	1.2		2
6.8	600	685PHB600K4J	55	25	2.1	42.5x45x30	37.5	1.2	20.3	4
6.8	700	685PHB700K4R	40	21.5	4	57.5x45x30	52.5	1.2	20.3	4
6.8	700	685PHB700K2R	40	14	4.7	57.5x45x30	52.5	1.2		2
8	700	805PHB700K2R	40	14	4.4	57.5x50x35	52.5	1.2		2
8	700	805PHB700K4R	40	23.5	3.7	57.5x50x35	52.5	1.2	20.3	4
9	600	905PHB600K4J	55	27	1.9	42.5x45x30	37.5	1.2	20.3	4
9	600	905PHB600K2J	55	14	2.6	42.5x45x30	37.5	1.2		2
9	700	905PHB700K2R	40	14	4.1	57.5x50x35	52.5	1.2		2
9	700	905PHB700K4R	40	25	3.4	57.5x50x35	52.5	1.2	20.3	4
10	250	106PHB250K2H	40	14	2.6	32x33x18	27.5	1.2		2
10	250	106PHB250K2J	25	14	3.6	42.5x28x17	37.5	1.2		2
10	250	106PHB250K4H	40	20.5	1.9	32x33x18	27.5	1.2	10.2	4
10	400	106PHB400K4J	40	26	2.1	42.5x37x28	37.5	1.2	20.3	4
10	400	106PHB400K2J	40	14	2.8	42.5x37x28	37.5	1.2		2
10	600	106PHB600K2R	30	14	4.5	57.5x45x30	52.5	1.2		2
10	600	106PHB600K4R	30	22	3.8	57.5x45x30	52.5	1.2	20.3	4
15	250	156PHB250K2J	25	14	3.1	42.5x30x22	37.5	1.2		2
15	330	156PHB330K2J	30	14	2.7	42.5x37x28	37.5	1.2		2
15	330	156PHB330K4J	30	24	2	42.5x37x28	37.5	1.2	10.2	4
15	400	156PHB400K4J	40	27	1.7	42.5x45x30	37.5	1.2	20.3	4
15	400	156PHB400K2J	40	14	2.4	42.5x45x30	37.5	1.2		2
15	600	156PHB600K2R	30	14	3.7	57.5x50x35	52.5	1.2		2
15	600	156PHB600K4R	30	25	3	57.5x50x35	52.5	1.2	20.3	4
20	250	206PHB250K2J	25	14	2.8	42.5x37x28	37.5	1.2		2
20	250	206PHB250K4J	25	24	2.1	42.5x37x28	37.5	1.2	10.2	4
20	330	206PHB330K4J	30	27	1.8	42.5x45x30	37.5	1.2	20.3	4
20	330	206PHB330K2J	30	14	2.5	42.5x45x30	37.5	1.2		2
20	400	206PHB400K4R	20	24.5	3	57.5x45x30	52.5	1.2	20.3	4
20	400	206PHB400K2R	20	14	3.7	57.5x45x30	52.5	1.2		2
22	250	226PHB250K2J	25	14	2.8	42.5x37x28	37.5	1.2		2
22	250	226PHB250K4J	25	25	2.1	42.5x37x28	37.5	1.2	10.2	4
22	400	226PHB400K4R	20	25.5	2.9	57.5x50x35	52.5	1.2	20.3	4
22	400	226PHB400K2R	20	14	3.6	57.5x50x35	52.5	1.2		2
25	250	256PHB250K4J	25	26	1.9	42.5x37x28	37.5	1.2	20.3	4

PHB

Metallized Polypropylene,
High Frequency radial lead
box

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)	S (MM)	d (MM)	P (MM)	# Leads
25	250	256PHB250K2J	25	14	2.6	42.5x37x28	37.5	1.2		2
25	330	256PHB330K2R	17	14	3.6	57.5x45x30	52.5	1.2		2
25	330	256PHB330K4R	17	23	2.9	57.5x45x30	52.5	1.2	20.3	4
25	400	256PHB400K4R	20	26	2.8	57.5x50x35	52.5	1.2	20.3	4
25	400	256PHB400K2R	20	14	3.4	57.5x50x35	52.5	1.2		2
30	250	306PHB250K2J	25	14	2.6	42.5x45x30	37.5	1.2		2
30	250	306PHB250K4J	25	26.5	1.9	42.5x45x30	37.5	1.2	20.3	4
30	330	306PHB330K2R	17	14	3.4	57.5x45x30	52.5	1.2		2
30	330	306PHB330K4R	17	24.5	2.7	57.5x45x30	52.5	1.2	20.3	4
33	250	336PHB250K2J	25	14	2.4	42.5x45x30	37.5	1.2		2
33	250	336PHB250K4J	25	27	1.7	42.5x45x30	37.5	1.2	20.3	4
33	330	336PHB330K2R	17	14	3.3	57.5x50x35	52.5	1.2		2
33	330	336PHB330K4R	17	26	2.6	57.5x50x35	52.5	1.2	20.3	4
35	330	356PHB330K4R	17	22	2.6	57.5x50x35	52.5	1.2	20.3	4
35	330	356PHB330K2R	17	12	3.2	57.5x50x35	52.5	1.2		2
40	250	406PHB250K4R	15	26	2.6	57.5x45x30	52.5	1.2	20.3	4
40	250	406PHB250K2R	15	14	3.3	57.5x45x30	52.5	1.2		2
40	330	406PHB330K4R	17	27	2.4	57.5x50x35	52.5	1.2	20.3	4
40	330	406PHB330K2R	17	14	3.1	57.5x50x35	52.5	1.2		2
50	250	506PHB250K4R	15	26.5	2.3	57.5x50x35	52.5	1.2	20.3	4
50	250	506PHB250K2R	15	12	3	57.5x50x35	52.5	1.2		2
60	250	606PHB250K2R	15	14	2.7	57.5x50x35	52.5	1.2		2
60	250	606PHB250K4R	15	27	2	57.5x50x35	52.5	1.2	20.3	4