

<b>PCN Notification Date</b>	<i>September 30, 2016</i>
<b>Submitter's Name</b>	<i>Bino Babichen</i>
<b>Submitter's Contact Details</b>	<i><a href="mailto:binoy.babichen@psbel.com">binoy.babichen@psbel.com</a></i>
<b>PCN Number</b>	<i>PCN_ABC/MBC_09302016</i>
<b>Description of Change</b>	<i>To improve the manufacturing efficiencies and product specification, the ABC75, ABC120, MBC75 &amp; MBC120 series will have the attached product improvement changes implemented from January 1st 2017.</i>
<b>Reason for Change</b>	<i>To improve both the manufacturability of the parts and their aesthetic look.</i>
<b>Summary of Changes Between New and Old Part</b>	<i>None of the changes impact on current form, fit, function or safety specifications</i>
<b>Traceability Guidelines (lot code/date code, markings, ship date)</b>	<i>NA</i>
<b>Last Time Buy Date</b>	<i>NA</i>
<b>Datasheet</b>	<i>No Change in Datasheet.</i>
<b>Qualification/Test Data</b>	<ul style="list-style-type: none"> <li>1) <i>List of Planned Improvements sheet – Page 3 to 6</i></li> <li>2) <i>Hi-pot test – Page 7</i></li> <li>3) <i>CE/RE Test – Page 8</i></li> </ul>
<b>Impact on Reliability</b>	<i>No impact on reliability.</i>
<b>Effective date</b>	<i>January 01, 2017</i>

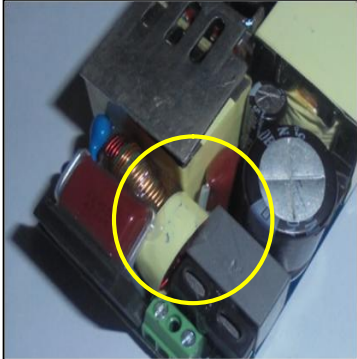



**Closure Approvals**



<b>Company</b>	<b>Name</b>	<b>Contact Details</b>	<b>Date</b>
<b>Bel Power Solutions</b>	Dara G Crowe Product Manager	Phone: +35361226260 Email <a href="mailto:dara.crowe@psbel.com">dara.crowe@psbel.com</a>	September 30, 2016



List of parts effected by the notification are as below:

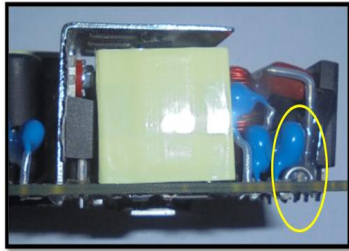

ABC75-1T12L		ABC120-1T30L
ABC75-1T24L		ABC120-1030L
ABC75-1T48L		ABC120-1048L
ABC75-1012L		MBC75-1T12L
ABC75-1024L		MBC75-1T24L
ABC75-1T30L		MBC75-1T48L
ABC75-1030L		MBC75-1T15L-2
ABC75-1048L		MBC75-1015L-2
ABC75-1024L-S53		MBC75-1024L
ABC120-1T12L		MBC120-1T12L
ABC120-1T24L		MBC120-1T24L
ABC120-1T48L		MBC120-1T48L
ABC120-1012L		MBC120-1015L
ABC120-1024L		MBC120-1024L-S50
ABC120-1058L		MBC120-1024L-2
ABC120-1058L-S45		MBC120-1024L
ABC120-1T15L		MBC120-1048L

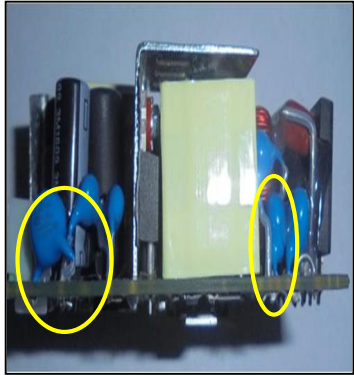
**List Of Planned Improvements: January 1<sup>st</sup> 2017 Implementation date**


Sr No	Component / Area	Existing Process/Component	Changed Process/Component	Improvement achieved	Form/Fit/Function/Safety Impact
1	C26/L11 Location interchanged	<p>The existing locations of C26/L11 as shown below</p> 	<p>In the changed configuration C26 and L11 locations are swapped as shown below</p> 	<p>Due to the swapping of C26/L11 components the surrounding components are easier to install during production.</p>	<p>No Impact</p>
2	C1 Component Make Change	<p>Existing X Cap is, 0.47 uf ,275V /20% Size : Width 10 mm <b>KEMET / ARCOTRONICS</b></p> 	<p>Updated to used of Cap X,0.47 uf ,275V /20% Size : Width 8 mm ,Make : <b>Wurth Electronics</b></p> 	<p>Substitute with an alternative part listed in the AVL. The extra 2 mm clearance between C6 and C1 allows for easy installation of C6 and C1</p>	<p>No Impact</p>

Sr No .	Component / Area	Existing Process/Component	Changed Process/Component	Improvement achieved	Form/Fit/Function/Safety Impact
3	L13 Component Make Change	<p>Existing part is a CORE,BOBBIN from <b>YENG TAT ELECTRONICS CO LTD / , B.L.K.Ferrites Pvt. Ltd.</b>TYPE,5x12.7MM Height-23mm Diameter--12 mm</p> 	<p>Replacement part will be a smaller diameter Component Ht-14mm ,Diameter--6 mm from <b>YENG TAT ELECTRONICS CO LTD:</b></p> 	<p>Substitute with another part from the AVL which is giving an extra 6mm of space on the PCB. This allows for easy installation</p>	<p>No Impact</p>

4	C6	<p>Existing part is from <b>NIJKERK ELECTRONICS.</b>          CAP,AL,ELE,47uF/420V,SM,RAD          Height -22mm          Diameter--18.20 mm</p> 	<p>The new part from "<b>Nippon Chemicon</b>" is 160 x20-          CAP,AL,ELE,47uF/400V,SM,RAD          Height -21mm          Diameter--16.20 mm</p> 	<p>Substitute with another part from the AVL. Safety file lists the limits to be a minimum of 47uF and 400V and 400V cap. An extra 2 mm of space is achieved which makes for easier installation.</p>	No Impact
---	----	---	---	---	-----------

Sr No	Component / Area	Existing Process/Component	Changed Process/Component	Improvement achieved	Form/Fit/Function/Safety Impact
5	L5	<p>L5 is located near C2. It is WIRE, BARE, 18GA Length 3.5mm</p> 	<p>L5 placed near the C3 Y-Cap. The same through hole is used to increase the jumper length up to 9 mm</p> 	<p>The increase in jumper length makes bending and insertion easier</p>	No Impact

6	Y caps – C38-C5	<p>C38 with sleeve C5 with sleeve 10mm Teflon sleeve in both the leads of cap C5</p> 	Remove C38 /C5 Teflon sleeves	Removing the insertion of sleeves makes the component insertion easier and faster	No Impact
---	-----------------	--	-------------------------------	---	-----------

Sr No	Component / Area	Existing Process/Component	Changed Process/Component	Improvement achieved	Form/Fit/Function/Safety Impact
7	C41	<p>Customized Horizontal bending</p> 	Straight Easy bending and stuffing	Easy insertion and standard part preparation	No Impact

**Hi-pot test** – This test is carried out as per below specification and found ok.

The work instruction is 39-ME30-48954-321-- HIPOT TEST MODEL: MBC120-1T24L

**HIPOT TEST-1:**

Test Voltage Applied	Min. Test Voltage (VAC)	Voltage Ramp	Min. Trip Current	Test Time
Between Input to Output	4245	750V/sec	5mA	1 sec.

***AND***

Test Voltage Applied	Min. Test Voltage (VAC)	Voltage Ramp	Min. Trip Current	Test Time
Between Input to Earth	1500	750V/sec	5mA	1 sec.



## CE/RE Test :-

### Existing Unit Extended CE And CE Results:-



### Proposed Modified unit extended CE And CE Results:-

