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| <p>To: <u>DISTRIBUTION</u></p> | <p style="text-align: right;">Issue No. <u>F1-123-T-003</u></p> <p style="text-align: right;">6th Dec, 2018</p> <p>TDK Corporation</p> <p>Communication Devices Business Group QA Manager</p> <p style="text-align: right;"><u>Koichi Saito</u></p> <p style="text-align: right;">Mobile RF Components Division Head <u>Hideaki Shimoda</u></p> |
| <p>Process Change Notice</p> | |
| <p>We will apply process change as follows : Please review, and reply with instructions regarding this application by filling out the REPLY SECTION below.</p> | |

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|---|-----------------------------------|--|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Name of change | Change of carrier tape material | | | | | | | | | | |
| Customer Part # | See attachment-1 | TDK Part # | See attachment-1 | | | | | | | | |
| Before | After | Remark | | | | | | | | | |
| Flat type Material = pulp Color = white | → | Emboss type Material = plastic Color = black | Please refer to the attachment-2 and the attachment-3 | | | | | | | | |
| <p><u>Purpose</u> Currently, pulp has been used as the material of carrier tape for 1005 & 1608 sized products. To avoid issues with stray particles of pulp material, we have decided to change the material of the carrier tape from pulp to embossed plastic. This change will improve taping quality.</p> <p><u>Applicable Product Line-up</u> Please refer to attachment 1 for the applicable part numbers.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">DEA10 Series</td> <td style="width: 50%;">DEA16 Series</td> </tr> <tr> <td>DPX10 Series</td> <td>DPX16 Series</td> </tr> <tr> <td>HHM17 Series</td> <td>HHM19 Series</td> </tr> <tr> <td>HHM22 Series</td> <td>ANT016 series</td> </tr> </table> <p>We appreciate your understanding and cooperation of our request in advance. If there is no response by January 15, 2019, we will assume this Process Change Notice was accepted.</p> | | | | DEA10 Series | DEA16 Series | DPX10 Series | DPX16 Series | HHM17 Series | HHM19 Series | HHM22 Series | ANT016 series |
| DEA10 Series | DEA16 Series | | | | | | | | | | |
| DPX10 Series | DPX16 Series | | | | | | | | | | |
| HHM17 Series | HHM19 Series | | | | | | | | | | |
| HHM22 Series | ANT016 series | | | | | | | | | | |
| Schedule : Running change from 15th Dec, 2018 | Request reply : By 15th Jan, 2019 | Attachment : <input checked="" type="radio"/> Yes . No | | | | | | | | | |

| | | |
|--|-------------------------------|---|
| <p>To : TDK Corporation Communication Devices Business Group</p> <p>Date : / /</p> | <p>Reply Section</p> | <p>Responsible person : _____</p> <p>Person in charge : _____</p> <p>Section/Department : _____</p> |
| <p>Approval</p> <p><u>Implementation: <input type="checkbox"/> Yes <input type="checkbox"/> No</u></p> | <p>Condition for approval</p> | |

| Customer part No. | TDK part No. |
|---------------------|---------------------|
| ANT016008LCD1575MA1 | ANT016008LCD1575MA1 |
| ANT016008LCD2442MA1 | ANT016008LCD2442MA1 |
| ANT016008LCS2442MA1 | ANT016008LCS2442MA1 |
| DEA100894LT-6319A3 | DEA100894LT-6319A3 |
| DEA100915LT-6319A1 | DEA100915LT-6319A1 |
| DEA101910DT-6004A1 | DEA101910DT-6004A1 |
| DEA101910DT-6005A2 | DEA101910DT-6005A2 |
| DEA101910DT-6016A1 | DEA101910DT-6016A1 |
| DEA101910DT-6017A1 | DEA101910DT-6017A1 |
| DEA101990LT-6302B1 | DEA101990LT-6302B1 |
| DEA102025LT-6313A1 | DEA102025LT-6313A1 |
| DEA102450BT-1278A2 | DEA102450BT-1278A2 |
| DEA102500LT-6307A1 | DEA102500LT-6307A1 |
| DEA105425BT-1293A1 | DEA105425BT-1293A1 |
| DEA160770LT-5018A1 | DEA160770LT-5018A1 |
| DEA160787LT-5049A1 | DEA160787LT-5049A1 |
| DEA160915LT-1160 | DEA160915LT-1160 |
| DEA160915LT-1169 | DEA160915LT-1169 |
| DEA160960LT-1169AA | DEA160960LT-1169AA |
| DEA160960LT-5044C1 | DEA160960LT-5044C1 |
| DEA161910LT-5003C1 | DEA161910LT-5003C1 |
| DEA161990LT-1182 | DEA161990LT-1182 |
| DEA161990LT-1182A8 | DEA161990LT-1182A8 |

* This list includes currently released products. Any new products in these series to be released will adhere to the terms of this PCN.

Applicable Part No. List

| Customer part No. | TDK part No. |
|----------------------|----------------------|
| DEA162025LT-5003C3 | DEA162025LT-5003C3 |
| DEA162025LT-5046B1 | DEA162025LT-5046B1 |
| DEA162400HT-8004B1 | DEA162400HT-8004B1 |
| DEA162441BT-7176A1 | DEA162441BT-7176A1 |
| DEA162450BT-1210A1 | DEA162450BT-1210A1 |
| DEA162450BT-1241A1 | DEA162450BT-1241A1 |
| DEA162450BT-1247B1 | DEA162450BT-1247B1 |
| DEA162450BT-1247C1 | DEA162450BT-1247C1 |
| DEA162450BT-1260B2 | DEA162450BT-1260B2 |
| DEA162450BT-1260B3 | DEA162450BT-1260B3 |
| DEA162450BT-1262B1 | DEA162450BT-1262B1 |
| DEA162450BT-1271A3 | DEA162450BT-1271A3 |
| DEA162450BT-1289A3 | DEA162450BT-1289A3 |
| DEA162450BT-1298A1 | DEA162450BT-1298A1 |
| DEA162450BT-2092A1-H | DEA162450BT-2092A1-H |
| DEA162450BT-2096A1-H | DEA162450BT-2096A1-H |
| DEA162450BT-2139A1 | DEA162450BT-2139A1 |
| DEA162450BT-2169A4 | DEA162450BT-2169A4 |
| DEA162450BT-2174A1 | DEA162450BT-2174A1 |
| DEA162450BT-2180A1 | DEA162450BT-2180A1 |
| DEA162450BT-2181D1 | DEA162450BT-2181D1 |
| DEA162500LT-1212A1 | DEA162500LT-1212A1 |
| DEA162500LT-1217A1 | DEA162500LT-1217A1 |

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Attachment-1(3/6)

Applicable Part No. List

| Customer part No. | TDK part No. |
|--------------------|--------------------|
| DEA162600BT-1258C2 | DEA162600BT-1258C2 |
| DEA162700LT-5014A1 | DEA162700LT-5014A1 |
| DEA163800LT-5017C1 | DEA163800LT-5017C1 |
| DEA165363BT-2124A3 | DEA165363BT-2124A3 |
| DEA165375BT-2122A1 | DEA165375BT-2122A1 |
| DEA165850LT-1197B2 | DEA165850LT-1197B2 |
| DLF162500LT-5028A1 | DLF162500LT-5028A1 |
| DPX105850DT-6019A1 | DPX105850DT-6019A1 |
| DPX161576DT-8011B1 | DPX161576DT-8011B1 |
| DPX162170DT-8022B1 | DPX162170DT-8022B1 |
| DPX162170DT-8039A2 | DPX162170DT-8039A2 |
| DPX162170DT-8122B1 | DPX162170DT-8122B1 |
| DPX162500DT-8014A1 | DPX162500DT-8014A1 |
| DPX162500DT-8128A1 | DPX162500DT-8128A1 |
| DPX162690DT-8022B2 | DPX162690DT-8022B2 |
| DPX165850DT-8032A1 | DPX165850DT-8032A1 |
| DPX165850DT-8033B1 | DPX165850DT-8033B1 |
| DPX165850DT-8117A1 | DPX165850DT-8117A1 |
| DPX165900DT-8025A1 | DPX165900DT-8025A1 |
| DPX165900DT-8125A1 | DPX165900DT-8125A1 |

DPX165950DT-8018A1

DPX165950DT-8018A1

DPX165950DT-8030A1

DPX165950DT-8030A1

DPX165950DT-8030D1

DPX165950DT-8030D1

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Attachment-1(4/6)

Applicable Part No. List

| Customer part No. | TDK part No. |
|--------------------|--------------------|
| DPX165950DT-8045A1 | DPX165950DT-8045A1 |
| DPX165950DT-8048A1 | DPX165950DT-8048A1 |
| DPX165950DT-8060A1 | DPX165950DT-8060A1 |
| DPX165950DT-8118A1 | DPX165950DT-8118A1 |
| DPX165950DT-8126A1 | DPX165950DT-8126A1 |
| DPX165950DT-8130A1 | DPX165950DT-8130A1 |
| DPX165950DT-8144A1 | DPX165950DT-8144A1 |
| DPX165950DT-8148A1 | DPX165950DT-8148A1 |
| HHM-1710D1 | HHM1710D1 |
| HHM-1711D1 | HHM1711D1 |
| HHM-1732B1 | HHM1732B1 |
| HHM1704A2 | HHM1704A2 |
| HHM1710D1 | HHM1710D1 |
| HHM1710J1 | HHM1710J1 |
| HHM1711D1 | HHM1711D1 |
| HHM1711E1 | HHM1711E1 |
| HHM17125D1 | HHM17125D1 |
| HHM17139B1 | HHM17139B1 |

HHM17139B2

HHM17139B2

HHM1713E2

HHM1713E2

HHM17144A1

HHM17144A1

HHM17146A1

HHM17146A1

HHM17147A1

HHM17147A1

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Attachment-1(5/6)

Applicable Part No. List

| Customer part No. | TDK part No. |
|-------------------|--------------|
| HHM17152A1 | HHM17152A1 |
| HHM1715E1 | HHM1715E1 |
| HHM1726N1 | HHM1726N1 |
| HHM1726P1 | HHM1726P1 |
| HHM1731F1 | HHM1731F1 |
| HHM1732B1 | HHM1732B1 |
| HHM1733B1 | HHM1733B1 |
| HHM1749K1 | HHM1749K1 |
| HHM1749S1 | HHM1749S1 |
| HHM1776B2 | HHM1776B2 |
| HHM1776B3 | HHM1776B3 |
| HHM1779B1 | HHM1779B1 |
| HHM1791A1 | HHM1791A1 |
| HHM1902A1 | HHM1902A1 |
| HHM1902B1 | HHM1902B1 |

| | |
|------------|------------|
| HHM1903A1 | HHM1903A1 |
| HHM1904A1 | HHM1904A1 |
| HHM1904C1 | HHM1904C1 |
| HHM1906A1 | HHM1906A1 |
| HHM1907B1 | HHM1907B1 |
| HHM1908A2 | HHM1908A2 |
| HHM1946A1 | HHM1946A1 |
| HHM2202SA2 | HHM2202SA2 |

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Attachment-1(6/6)

Applicable Part No. List

| Customer part No. | TDK part No. |
|-------------------|--------------|
| HHM2204SA1 | HHM2204SA1 |
| HHM22106C1 | HHM22106C1 |
| HHM2220SA3 | HHM2220SA3 |
| HHM2909C4 | HHM2909C4 |
| HHM2910E1 | HHM2910E1 |
| HHM2910E4 | HHM2910E4 |
| HHM2919A2 | HHM2919A2 |
| HHM2942A2 | HHM2942A2 |

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