

To: DISTRIBUTION

Issue No. : F1-123-D-003

February 8, 2019

TDK Corporation
Communication Devices Business Group
QA Manager

Koichi Saito

Mobile RF Components Division Head

Hideaki Shimoda

Notice of Process Change

We will apply process change as follows :
Please review, and reply with instructions regarding this application by filling out the ANSWER SHEET below.

Name of change	Addition of the manufacturing site for RF LTCC filters		
Customer Part #	---	TDK Part #	---
Before	After	Remark	
TDK Akita Corporation	TDK Akita Corporation [Additional site] TDK Dalian Corporaion (China)		
Purpose In order to increase the manufacturing capacity of RF LTCC filters (Diplexer, Coupler, Balun, etc.) and to decrease the risk of the manufacturing site as a part of Business Continuity Plan, we are going to add the manufacturing site "TDK Dalian Corporation (China)". TDK Dalian Corporation has been already manufacturing RF LTCC filters. If you need any data, please ask our sales. Please fill out and send back the answer sheet below by May 31, 2018. We shall understand as you agree if there is no response until request reply. Attachments No.1 Process flowchart No. 2 List of TDK Part Numbers affected			
Schedule : Starting March 18, 2019	Request reply : By March 01, 2019	Attachment : <input checked="" type="radio"/> Yes . No	

To : TDK Corporation Communication Devices Business Group	ANSWER SHEET	Responsible person : _____ Person in charge : _____ Section : _____
Date :		
Approval <u>Implementation</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No	Request to TDK	

List of TDK Part Numbers DEA Series

DEA105425BT-1293A1
DEA162450BT-1260B3
DEA162450BT-1262B1
DEA162450BT-1271A3
DEA162450BT-1288A2
DEA162450BT-1288B1
DEA162450BT-1298A1
DEA162450BT-2181D1
DEA165363BT-2124A3
DEA165375BT-2122A1
DEA165375BT-2122A6
DEA252450BT-2027A1
DEA252400BT-2030A1
DEA252450BT-2031A1
DEA255787BT-2044A1
DEA255375BT-2076A1
DEA252593BT-2074A3
DEA252450BT-2080B2
DEA205425BT-2028A4
DEA202450BT-1213C1
DEA205375BT-2054A1
DEA202450BT-1275A1
DEA202450BT-1283A2
DEA202450BT-2159A2
DEA203600BT-1240B7
DEA162450BT-1271A3
DEA165375BT-2122A1
DEA165363BT-2124A3
DEA162450BT-1260B3
DEA162450BT-1288A2
DEA162450BT-1288B1BR
DEA162450BT-1288B1
DEA165375BT-2122A6
DEA162450BT-1262B2
DEA162450BT-2181D1
DEA162450BT-1298A1
DEA162450BT-1295A1
DEA165500BT-2208A1K
DEA165500BT-2208A1
DEA105425BT-1293A1
DEA202450BT-7210A1
DEA202450BT-7221A1
DEA161910LT-5003C1
DEA100894LT-6319A3
DEA101990LT-6302B1
DEA102025LT-6313A1
DEA102700LT-6307A2
DEA102025LT-6313A1
DEA100894LT-6319A3
DEA102170LT-6333B1
DEA160787LT-5032A1
DEA162025LT-5003C3
DEA162500LT-1212A1
DEA162500LT-1217A1
DEA162500LT-5033A2
DEA162690LT-1217A2
DEA162690LT-5051B1
DEA162690LT-5064A1
DEA163800LT-5017C1
DEA162500LT-1212A1
DEA162500LT-1217A1
DEA162690LT-1217A2
DEA163800LT-5017C1
DEA162700LT-5014A2
DEA162025LT-5003C3
DEA160787LT-5032A1
DEA160787LT-5032A2
DEA162690LT-5014A5
DEA162500LT-5033A2
DEA162690LT-5051B2
DEA162690LT-5051B1
DEA162690LT-5064A1
DEA162170LT-5039A5
DEA162690LT-1217A2W
DEA202025LT-5052C1
DEA202170LT-5076A1
DEA202025LT-5052C1W
DEA202690LT-5096A2SJ
DEA251002LT-5048A1
DEA202484HT-8002A1

List of TDK Part Numbers HHM Series

HHM1710D1	HHM1918A2K
HHM1710J1	HHM1930A2K
HHM1711D1	HHM1932A2
HHM1711E1	HHM1932A6K
HHM17139B1	HHM1942A3
HHM17147A1	HHM1942A4
HHM1715E1	HHM1944A1
HHM1733B1	HHM1946A1
HHM1902B1	HHM2627B1
HHM1903A4	HHM2628B2
HHM1907B1	HHM2942A2
HHM1908A2	HHM2949A1K
HHM1944A1	HHM17147A1
HHM1944A4	HHM15112A1
HHM1946A1	HHM15115A1
HHM22106B1	HHM15103B3
HHM22137A1	HHM15107A7
HHM22137A2	HHM22106B1
HHM22139A2	HHM22143B1
HHM2942A2	HHM22137A1
HHM1506	HHM22137A3K
HHM1515B4	HHM22137A2
HHM1516	HHM22139A2
HHM1517	HHM22139A4
HHM1520	
HHM1522A7	
HHM1522B1	
HHM1522E1	
HHM1522E3	
HHM1522B8	
HHM1523D2	
HHM1525	
HHM1526	
HHM1545A5	
HHM1570B1	
HHM1589D1	
HHM1589E1	
HHM1591A2	
HHM1591D1	
HHM1595A1	
HHM1710D1	
HHM1710J1	
HHM1711D1	
HHM1711E1	
HHM1715E1	
HHM1902B1	
HHM1902A1	
HHM1903A4	
HHM1907B1	
HHM1908A2	
HHM1918A2	

Process Flow Chart

Item :RF LTCC filters

Process Flow	【 Current 】 Manufacturing Site	【 After Change 】 Manufacturing Site	(Reference)			
			4M			
			Man	Machine	Material	Method
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Incoming Inspection</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Material Mixing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Seat Casting</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Laser Processing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Inner Conductor Printing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Pressing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Cutting</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Firing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Terminating</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Electroplating</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Appearance Inspection</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Electrical inspection / Taping</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Taping Arrangement</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Outgoing Inspection</div> </div>	<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> <p>TDK Akita Corporation</p> </div>	<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> <p>TDK Akita Corporation & TDK Dalian Corporation</p> </div>	<p>* Man - Operators in TDK Dalian are added.</p> <p>* Machine - Same models as TDK Akita are installed.</p> <p>* Material - Same as TDK Akita.</p> <p>* Method - Same as TDK Akita.</p>			

List of TDK Part Numbers DPX/TPX Series

DPX205950DT-9008A1	DPX201880DT-4061A2K	DPX165850DT-8040B1
DPX205950DT-9108A1	DPX202750DT-4058A1	DPX165850DT-8117A1
DPX205950DT-9126A1	DPX165850DT-8040B1	DPX165850DT-8140B1
DPX205950DT-9026A1	DPX165850DT-8140B1	DPX165900DT-8025A1
DPX202170DT-4049A1	DPX202690DT-4160A1	DPX165900DT-8125A1
DPX162500DT-8014A4	DPX165950DT-8044A1	DPX165950DT-8018A1
DPX165900DT-8025A1	DPX202700DT-4162A1KR	DPX165950DT-8026A1
DPX165900DT-8125A1	DPX202700DT-4079A1K	DPX165950DT-8026D1
DPX202690DT-4049A2	DPX202700DT-4179A1K	DPX165950DT-8044A1
DPX165850DT-8017A1	DPX202700DT-4179A1K	DPX165950DT-8045A1
DPX165850DT-8117A1	DPX202700DT-4179A1K	DPX165950DT-8048A1
DPX165950DT-8026A1	DPX202700DT-4053A4	DPX165950DT-8126A1
DPX165950DT-8126A1	DPX202690DT-4084A1	DPX165950DT-8144A1
DPX105950DT-6012A2	DPX202690DT-4066B1	DPX165950DT-8145A1
DPX205850DT-9034A1	DPX252690DT-5031A3	DPX165950DT-8148A1
DPX205850DT-4152B2	DPX162500DT-8014A4	
DPX162170DT-8022B1	DPX201880DT-4061A2	TPX205950MT-7004A1
DPX202700DT-4035B5	DPX202690DT-4057A1	TPX205950MT-7110A1
DPX162170DT-8122B1	DPX252690DT-5225A1K	TPX205950MT-7010A1
DPX205850DT-9134A2	DPX162500DT-8028A1	TPX205950MT-7110A1W
DPX205850DT-4055A1	DPX252690DT-5325A1K	TPX205950MT-7010A1W
DPX165850DT-8032A1	DPX105950DT-6011C1RL	TPX253600MT-7039C1SJ
DPX202700DT-4162A1	DPX105950DT-6111C1RL	TPX205950MT-7172A1MT
DPX205850DT-4054B5	DPX205850DT-4062A4	
DPX165850DT-8033B1	DPX165950DT-8144A1W	
DPX162500DT-8028A1	DPX205850DT-9043B1	
DPX202700DT-4062A1	DPX202690DT-4196J1K	
DPX165950DT-8026D1	DPX202690DT-4196J1K	
DPX165950DT-8144A1	DPX202690DT-4196J1K	
DPX205850DR-9043B1	DPX255850DT-5045F1	
DPX105950DT-6011C1	DPX255850DT-5145F1	
DPX105950DT-6111C1	DPX202690DT-4084A5	
DPX202690DT-4060A1	DPX202690DT-4184A5	
DPX165850DR-8017A1	DPX252690DT-5054B1	
DPX105950DT-6112A3	DPX252690DT-5225A1	
DPX252690DT-5121C1	DPX165950DT-8144A6	
DPX105950DT-6016A1	DPX202690DT-4160A1K	
DPX105950DT-6116A1	DPX205850DT-4154B5	
DPX205850DT-4154B1	DPX255850DT-0034A1SJ	
DPX205850DT-4054B1	DPX255850DT-0134A1SJ	
DPX165950DT-8145A1	DPX161606DT-8076B2SJ	
DPX165950DT-8048A1	DPX161606DT-8176B2SJ	
DPX252690DT-5031A1	DPX205850DT-4222C1SJ	
DPX252690DT-5032A1	DPX255850DT-5070B1SJ	
DPX252690DT-5032B1	DPX201880DT-4061A3	
DPX105950DT-6012A2	DPX255850DT-5170B1SJ	
DPX202690DT-4084A1K	DPX165950DT-8196A1MT	
DPX252690DT-5042B2	DPX162690DT-8122B2	
DPX165950DT-8148A1	DPX165850DT-8017A1	
DPX162170DT-8122B1	DPX165850DT-8032A1	
DPX205850DT-4055A1K	DPX165850DT-8033B1	