



# Initial Product/Process Change Notification

Document #: IPCN24896XA

Issue Date: 29 Sep 2022

<b>Title of Change:</b>	Transfer of Assembly and Test operation of DPAK package (Case outline 369C) from onsemi Seremban, Malaysia to JCET, China.
<b>Proposed First Ship date:</b>	01 Oct 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Milos.Dvorak@onsemi.com">Milos.Dvorak@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
<b>Type of Notification:</b>	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >
<b>Marking of Parts/ Traceability of Change:</b>	Changed material can be identified by assembly plant code
<b>Change Category:</b>	Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Material Change, Manufacturing Site Transfer

**Sites Affected:**

**onsemi Sites**

None

**External Foundry/Subcon Sites**

JCET, China

**Description and Purpose:**

This Initial Notification announces to customers of onsemi plans to transfer assembly and test operations of the DPAK package (Case Outline 369C) products from onsemi Seremban, Malaysia to JCET, China.

	From	To
Assembly / Test Site	onsemi, Seremban, Malaysia	JCET, China
LeadFrame	Single Gauge, No plating	Single Gauge, Ag plating
Die Attach	Pb95Sn5	Pb95.5Sn2Ag2.5
Mold Compound	G700HF GE 8000CH4ES	CEL-9240HF(Green)
Test platform	Motorola DTS Eagle ETS88	HZCC CTA8280

**Qualification Plan:**

**QV DEVICE NAME: NCP1117DT50RKG**

**RMS: 84204**

**PACKAGE: DPAK**

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
ELFR	JESD22-A108	Ta=125°C, 100 % max rated Vcc	48 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
LTSL	JESD22-A119	Ta= -40°C	168 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	

Estimated date for qualification completion: 30 December 2022

**List of Affected Parts:**

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
LM2931ADT-5.0RKG	NCP1117DT50RKG
LM2931DT-5.0G	NCP1117DT50RKG
LP2950ACDT-3.3RG	NCP1117DT50RKG
LP2950ACDT-5.0G	NCP1117DT50RKG
LP2950ACDT-5RKG	NCP1117DT50RKG
LP2950CDT-3.0RKG	NCP1117DT50RKG
LP2950CDT-3.3G	NCP1117DT50RKG
LP2950CDT-3.3RKG	NCP1117DT50RKG
LP2950CDT-5.0G	NCP1117DT50RKG
LP2950CDT-5.0RKG	NCP1117DT50RKG
MC33269DT-3.3G	NCP1117DT50RKG
MC33269DTRK-3.3G	NCP1117DT50RKG
MC33269DTRK-5.0G	NCP1117DT50RKG



# Initial Product/Process Change Notification

Document #: IPCN24896XA

Issue Date: 29 Sep 2022

MC33269DTRKG	NCP1117DT50RKG
MC33275DT-2.5RKG	NCP1117DT50RKG
MC33275DT-3.3RKG	NCP1117DT50RKG
MC33275DT-5.0RKG	NCP1117DT50RKG
NCP1117DT18RKG	NCP1117DT50RKG
NCP1117DT33G	NCP1117DT50RKG
NCP1117DT33RKG	NCP1117DT50RKG
NCP1117DT33T5G	NCP1117DT50RKG
NCP1117DT50G	NCP1117DT50RKG
NCP1117DT50RKG	NCP1117DT50RKG
NCP1117DTARKG	NCP1117DT50RKG
NCP1117IDT33T4G	NCP1117DT50RKG
NCP1117IDT50T4G	NCP1117DT50RKG
NCP1117IDTAT4G	NCP1117DT50RKG
NCP5501DT33RKG	NCP1117DT50RKG
NCP5501DT50RKG	NCP1117DT50RKG
LM317MABDTG	NCP1117DT50RKG
LM317MABDTRKG	NCP1117DT50RKG
LM317MADTRKG	NCP1117DT50RKG
LM317MBDTG	NCP1117DT50RKG
LM317MBDTRKG	NCP1117DT50RKG
LM317MDTG	NCP1117DT50RKG
LM317MDTRKG	NCP1117DT50RKG
MC78M05ABDTG	NCP1117DT50RKG
MC78M05ABDTRKG	NCP1117DT50RKG
MC78M05ACDTRKG	NCP1117DT50RKG
MC78M05BDTG	NCP1117DT50RKG
MC78M05BDTRKG	NCP1117DT50RKG
MC78M05CDTG	NCP1117DT50RKG
MC78M05CDTRKG	NCP1117DT50RKG
MC78M06CDTRKG	NCP1117DT50RKG
MC78M08BDTRKG	NCP1117DT50RKG
MC78M08CDTRKG	NCP1117DT50RKG
MC78M09BDTRKG	NCP1117DT50RKG



## Initial Product/Process Change Notification

Document #: IPCN24896XA

Issue Date: 29 Sep 2022

MC78M09CDTRKG	NCP1117DT50RKG
MC78M12ABDTRKG	NCP1117DT50RKG
MC78M12ACDTRKG	NCP1117DT50RKG
MC78M12BDTG	NCP1117DT50RKG
MC78M12BDTRKG	NCP1117DT50RKG
MC78M12CDTG	NCP1117DT50RKG
MC78M12CDTRKG	NCP1117DT50RKG
MC78M15ABDTRKG	NCP1117DT50RKG
MC78M15ACDTRKG	NCP1117DT50RKG
MC78M15BDTRKG	NCP1117DT50RKG
MC78M15CDTG	NCP1117DT50RKG
MC78M15CDTRKG	NCP1117DT50RKG
MC78M18CDTRKG	NCP1117DT50RKG
MC79M05BDTG	NCP1117DT50RKG
MC79M05BDTRKG	NCP1117DT50RKG
MC79M05CDTRKG	NCP1117DT50RKG
MC79M08BDTRKG	NCP1117DT50RKG
MC79M08CDTRKG	NCP1117DT50RKG
MC79M12BDTRKG	NCP1117DT50RKG
MC79M12CDTRKG	NCP1117DT50RKG
MC79M15BDTRKG	NCP1117DT50RKG
MC79M15CDTRKG	NCP1117DT50RKG
MC7805BDTG	NCP1117DT50RKG
MC7815CDTRKG	NCP1117DT50RKG
MC7815BDTRKG	NCP1117DT50RKG
MC7812CDTRKG	NCP1117DT50RKG
MC7812BDTRKG	NCP1117DT50RKG
MC7812BDTG	NCP1117DT50RKG
MC7805CDTRKG	NCP1117DT50RKG
MC7805CDTG	NCP1117DT50RKG
MC7805BDTRKG	NCP1117DT50RKG

Appendix A: Changed Products

DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
LM2931ADT-5.0RKG		NCP1117DT50RKG	NA	
LP2950ACDT-3.3RG		NCP1117DT50RKG	NA	
LP2950ACDT-5.0G		NCP1117DT50RKG	NA	
LP2950ACDT-5RKG		NCP1117DT50RKG	NA	
LP2950CDT-3.0RKG		NCP1117DT50RKG	NA	
LP2950CDT-3.3G		NCP1117DT50RKG	NA	
LP2950CDT-3.3RKG		NCP1117DT50RKG	NA	
LP2950CDT-5.0G		NCP1117DT50RKG	NA	
LP2950CDT-5.0RKG		NCP1117DT50RKG	NA	
MC33269DT-3.3G		NCP1117DT50RKG	NA	
MC33269DTRK-3.3G		NCP1117DT50RKG	NA	
MC33269DTRK-5.0G		NCP1117DT50RKG	NA	
MC33269DTRKG		NCP1117DT50RKG	NA	
MC33275DT-2.5RKG		NCP1117DT50RKG	NA	
LM2931DT-5.0G		NCP1117DT50RKG	NA	
MC33275DT-5.0RKG		NCP1117DT50RKG	NA	
MC33275DT-3.3RKG		NCP1117DT50RKG	NA	
NCP1117DT33G		NCP1117DT50RKG	NA	
NCP1117DT33RKG		NCP1117DT50RKG	NA	
NCP1117DT18RKG		NCP1117DT50RKG	NA	
NCP1117DT50G		NCP1117DT50RKG	NA	
NCP1117DT33T5G		NCP1117DT50RKG	NA	
NCP1117DTARKG		NCP1117DT50RKG	NA	
NCP1117IDT33T4G		NCP1117DT50RKG	NA	
NCP1117DT50RKG		NCP1117DT50RKG	NA	
NCP1117IDTAT4G		NCP1117DT50RKG	NA	
NCP1117IDT50T4G		NCP1117DT50RKG	NA	
NCP5501DT50RKG		NCP1117DT50RKG	NA	
NCP5501DT33RKG		NCP1117DT50RKG	NA	
LM317MABDTRKG		NCP1117DT50RKG	NA	
LM317MABDTG		NCP1117DT50RKG	NA	
LM317MBDTG		NCP1117DT50RKG	NA	
LM317MADTRKG		NCP1117DT50RKG	NA	
LM317MDTG		NCP1117DT50RKG	NA	
LM317MBDTRKG		NCP1117DT50RKG	NA	
MC78M05ABDTG		NCP1117DT50RKG	NA	
LM317MDTRKG		NCP1117DT50RKG	NA	
MC78M05ACDTRKG		NCP1117DT50RKG	NA	
MC78M05ABDTRKG		NCP1117DT50RKG	NA	
MC78M05BDTRKG		NCP1117DT50RKG	NA	
MC78M05BDTG		NCP1117DT50RKG	NA	
MC78M05CDTRKG		NCP1117DT50RKG	NA	
MC78M05CDTG		NCP1117DT50RKG	NA	
MC78M06CDTRKG		NCP1117DT50RKG	NA	
MC78M08CDTRKG		NCP1117DT50RKG	NA	
MC78M08BDTRKG		NCP1117DT50RKG	NA	
MC78M09CDTRKG		NCP1117DT50RKG	NA	
MC78M09BDTRKG		NCP1117DT50RKG	NA	
MC78M12ACDTRKG		NCP1117DT50RKG	NA	
MC78M12ABDTRKG		NCP1117DT50RKG	NA	
MC78M12BDTRKG		NCP1117DT50RKG	NA	
MC78M12BDTG		NCP1117DT50RKG	NA	
MC78M12CDTG		NCP1117DT50RKG	NA	
MC78M15ABDTRKG		NCP1117DT50RKG	NA	
MC78M12CDTRKG		NCP1117DT50RKG	NA	
MC78M15BDTRKG		NCP1117DT50RKG	NA	
MC78M15ACDTRKG		NCP1117DT50RKG	NA	
MC78M15CDTRKG		NCP1117DT50RKG	NA	
MC78M15CDTG		NCP1117DT50RKG	NA	
MC78M18CDTRKG		NCP1117DT50RKG	NA	

**Appendix A: Changed Products**

**PCN#: IPCN24896XA**  
**Issue Date: Sep 29, 2022**

DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC79M05BDTRKG		NCP1117DT50RKG	NA	
MC79M05BDTG		NCP1117DT50RKG	NA	
MC79M08BDTRKG		NCP1117DT50RKG	NA	
MC79M05CDTRKG		NCP1117DT50RKG	NA	
MC79M12BDTRKG		NCP1117DT50RKG	NA	
MC79M08CDTRKG		NCP1117DT50RKG	NA	
MC79M15BDTRKG		NCP1117DT50RKG	NA	
MC79M12CDTRKG		NCP1117DT50RKG	NA	
MC7805BDTG		NCP1117DT50RKG	NA	
MC79M15CDTRKG		NCP1117DT50RKG	NA	
MC7815BDTRKG		NCP1117DT50RKG	NA	
MC7815CDTRKG		NCP1117DT50RKG	NA	
MC7812BDTRKG		NCP1117DT50RKG	NA	
MC7812CDTRKG		NCP1117DT50RKG	NA	
MC7805CDTRKG		NCP1117DT50RKG	NA	
MC7812BDTG		NCP1117DT50RKG	NA	
MC7805BDTRKG		NCP1117DT50RKG	NA	
MC7805CDTG		NCP1117DT50RKG	NA	