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PPAP Package for:

Newark Electronics

(TE Connectivity Part Number: 2098067-4)

24/Apr/2019

Nondisclosure Agreement

If a nondisclosure agreement has been reached with your company, it will be included on the following page(s). Please review the terms of this agreement to ensure that further actions associated with information contained within this PPAP package do not violate these terms.

If a nondisclosure agreement HAS NOT been reached, certain documents deemed confidential by TE Connectivity will not be included in this PPAP package. These documents include but are not limited to the Design FMEA, the Process Flow Diagram, the Process FMEA and the Control Plan. These documents can be reviewed by you company but cannot be retained.

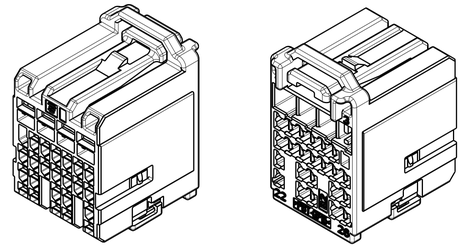
Section 1

Design Records

LOC	DIST
IN	00

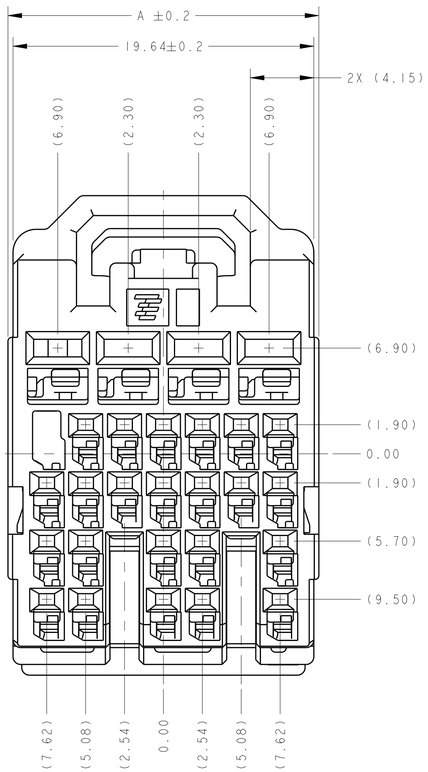
REVISIONS

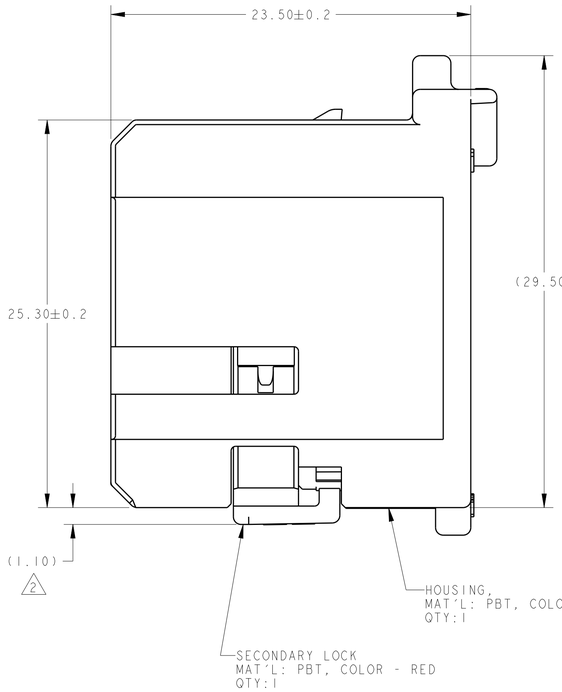
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	REVISED PER ECO-11-019475	31OCT2011	DLD	CJS
	B1	REVISED PER ECO-12-012796	19JUL2012	DLD	CJS
	C	REVISED PER ECO-12-017192	01NOV2012	DLD	CJS

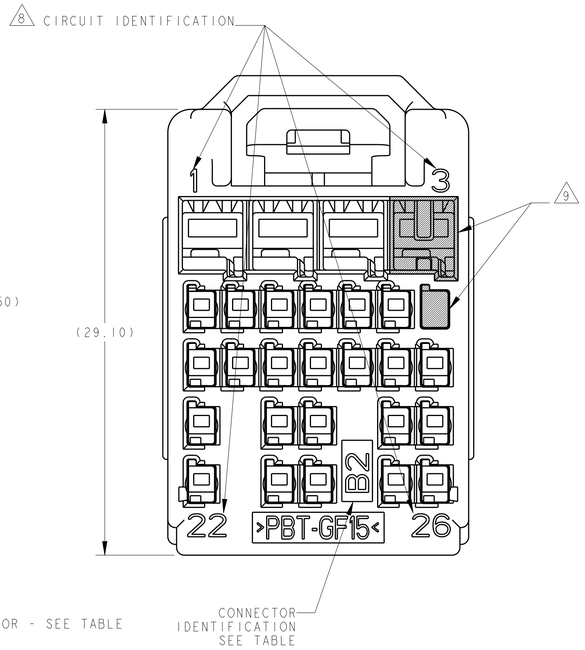


ISOMETRIC VIEWS
SCALE 2:1

1. 2098067-6 SHOWN, SEE PART NUMBER TABLE AND CIRCUIT AND KEYING ARRANGEMENT VIEWS TABLE ON SHEET 2.
2. SECONDARY LOCK PLATE TO BE SHIPPED IN STAGED POSITION. SHOULD SECONDARY LOCK PLATE BECOME ENGAGED, PLEASE SEE INSTRUCTION SHEET 408-10318 FOR DIRECTION ON DISENGAGING THE SECONDARY LOCK PLATE.
3. SIGNAL TERMINALS, TE GENERATION Y, DRAWING NO. 1924727.
4. USE WITH POWER TERMINALS, SUMITOMO US280, PART NUMBERS 8100-4443, 8100-4444, 8100-4445.
5. USE WITH MATING INTERFACE SHOWN ON TE DRAWING NUMBER 2098385.
6. GMW3191 PERFORMANCE STANDARD, WHERE APPLICABLE, EXCEPT THE AVERAGE PRIMARY TERMINAL EXTRACTION FORCE TO BE EQUAL TO OR GREATER THAN 25N FOR THE 0.64 TERMINAL AND SECONDARY LOCK PLATE ENGAGE FORCE TO BE 48N MAX.
7. TEMERATURE CLASS 1, -40° C TO 85° C
8. SEE "CIRCUIT AND KEYING ARRANGEMENT VIEWS" TABLE ON SHEET 2 FOR NUMERIC CHARACTERS.
9. CROSSHATCHING INDICATES A BLOCKED CIRCUIT CAVITY. CAVITY WILL NOT ACCEPT TERMINAL INSERTION. SEE "CIRCUIT AND KEYING ARRANGEMENT VIEWS" ON SHEET 2.







PACKAGING	HOUSING COLOR	CONNECTOR IDENTIFICATION	DIM A	PART NUMBER
PARTITIONED	GREEN	CL	N/A	1-2098067-7
PARTITIONED	GRAY	B2	20.30	1-2098067-6
PARTITIONED	PINK	B1	20.30	1-2098067-5
PARTITIONED	BROWN	U2	20.30	1-2098067-4
PARTITIONED	BLACK	U1	20.30	1-2098067-3
PARTITIONED	BLUE	IP2	20.30	1-2098067-2
PARTITIONED	NATURAL	IP1	20.30	1-2098067-1
BULK	GREEN	CL	N/A	2098067-7
BULK	GRAY	B2	20.30	2098067-6
BULK	PINK	B1	20.30	2098067-5
BULK	BROWN	U2	20.30	2098067-4
BULK	BLACK	U1	20.30	2098067-3
BULK	BLUE	IP2	20.30	2098067-2
BULK	NATURAL	IP1	20.30	2098067-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±-
3 PLC ±-
4 PLC ±-
ANGLES ±1°
MATERIAL SEE CALLOUT -
FINISH - -

DWN JR SHUEY 02APR2009
CHK GM MARTIN 02APR2009
APVD GM MARTIN 02APR2009
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME PLUG ASSEMBLY, UNSEALED HYBRID, A BCM

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-2098067 | RESTRICTED TO -

Customer Drawing | SCALE 5:1 | SHEET 1 OF 2 | REV C

LOC	DIST
IN	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

2098067-1	2098067-2	2098067-3	2098067-4	2098067-5	2098067-6	2098067-7
BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES	BLOCKED CIRCUIT CAVITIES
P1	P2	U1	U2	B1	B2	CL
21 >PBT-GF15< 26	22 >PBT-GF15< 27	21 >PBT-GF15< 26	21 >PBT-GF15< 26	22 >PBT-GF15< 27	22 >PBT-GF15< 26	21 >PBT-GF15< 25
CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN	CIRCUIT IDENTIFICATION AS SHOWN
(20.30)	(20.30)	(20.30)	(20.30)	(20.30)	(20.30)	(19.64)
(2.54)	(2.54)	(5.08)	(5.08)	(0.00)	(5.08) (2.54)	(2.54) (5.08)

CIRCUIT AND KEYING ARRANGEMET VIEWS

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN JR SHUEY 02APR2009	TE Connectivity	
DIMENSIONS: mm	CHK GM MARTIN 02APR2009	NAME PLUG ASSEMBLY, UNSEALED HYBRID, A BCM	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±- 3 PLC ±- 4 PLC ±- ANGLES ±1°	APVD GM MARTIN 02APR2009	SIZE A1	CAGE CODE 00779
MATERIAL SEE CALLOUT -	PRODUCT SPEC -	DRAWING NO C-2098067	RESTRICTED TO -
FINISH - -	APPLICATION SPEC -	WEIGHT -	SHEET 2 OF 2
		Customer Drawing	SCALE 5:1 REV C

4805 (3/11)

Section 2

Engineering Change Documents

Product Change Notification

Current Date: 19-Jul-2018

TE Connectivity

Product Change Notification: P-18-016097 **PCN Date:** 17-JUL-18

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:
One Roof - Connectors stage

Description of Changes
Dear Customer, TE Connectivity Automotive Business Unit is in the fourth phase of a process Consolidation Project in the Empalme Campus, the objective is to consolidate Plant 1 (Molding & Mechatronics) and Plant 4 (Assembly) into a single building, in the same industrial park. The fourth phase involves migration of TE4 Connector Assembly processes to TE2 One Roof Building, As part of our ongoing activities to provide our customers the highest quality products, this will drive to a Vertical Integration, Safety Systems improvements, Warehouse optimization, and excellent customer experience. The building is being prepare to start moving in September 2018 through December 2018. **Other attachments:** TE Empalme Consolidation

Reason for Changes:	
Dear Customer, we hereby inform you about a transfer of tools and/or processes. The transfer follows a strict procedure, which fully maintains quality, ability to supply and form-fit-function of the concerned products. The new manufacturing location operates under a certified quality management system in accordance with standard automotive requirements. A TE-internal release test based on the relevant part specifications will be executed before delivery. Upon request, a PPAP Level 2 will be available if it concerns a transfer of a tool which produces a finished TE-product. A PPAP Level 1 will be available if it concerns a component of a TE-product, where the production location of the finished TE-product remains unchanged. If you require such a PPAP, please notify the responsible TE Sales Contact within 14 calendar days after receipt of this PCN	
Estimated Dates:	
Last Order Date (Obsolete Parts Only):	**First Date To Ship** (Changed Parts Only):
	02-NOV-2018
Last Ship Date (Obsolete Parts Only):	**Last Date for Mixed Shipments:** (Changed Parts Only):
	No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-1326132-0	NO					
1-1326327-1	NO					
1-1326328-2	NO					
1-1326727-9	NO					
1-1411001-0	NO					
1-1437855-9	NO		"108525A"			
1-1438454-1	NO					
1-1438726-6	NO					
1-1438726-7	NO					
1-1456315-1	NO					
1-1456315-2	NO					
1-1456315-5	NO					
1-1456426-1	NO					
1-1456426-2	NO					
1-1456426-5	NO					
1-1456426-6	NO					
1-1587041-4	NO					
1-1924067-2	NO					
1-1924067-3	NO					
1-1924067-4	NO					
1-1924067-5	NO					
1-1924067-6	NO					
1-1924067-9	NO					
1-1924337-3	NO					
1-1924939-6	NO					
1-1924940-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-1924940-3	NO					
1-1924940-7	NO					
1-1924940-8	NO					
1-1924941-0	NO					
1-1924941-2	NO					
1-1924941-3	NO					
1-1924941-4	NO					
1-1924941-5	NO					
1-1924941-8	NO					
1-1924943-7	NO					
1-1924943-8	NO					
1-1924944-1	NO					
1-1924944-5	NO					
1-1924944-7	NO					
1-2035363-0	NO					
1-2098067-3	NO					
1-2098067-4	NO					
1-2098067-5	NO					
1-2098067-6	NO					
1-2098923-0	NO					
1-2098923-4	NO					
1-2138685-5	NO					
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1-2203529-2	NO					
1-2203529-5	NO					
1-2203654-2	NO					
1-2203654-7	NO					
1-2203773-2	NO					
1-2208018-3	NO					
1-2208018-4	NO					
1-2208021-1	NO					
1-2208021-2	NO					
1-2208408-2	NO					
1-2272975-1	NO					
1-2296697-1	NO					
1-2296697-2	NO					
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1-2300499-2	NO					
1-2309436-1	NO					
1-638514-0	NO					
1-638514-2	NO					
1-638514-3	NO					
1-638514-4	NO					
1-638514-5	NO					
1-638514-6	NO					
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1-776905-2	NO					
1-776905-3	NO					
1274412-1	NO					
1326055-3	NO					
1326110-1	NO					
1326122-1	NO					
1326122-3	NO					
1326132-1	NO					
1326132-2	NO					
1326132-4	NO					
1326132-9	NO					
1326136-1	NO					
1326136-2	NO					
1326140-1	NO					
1326140-3	NO					
1326226-1	NO					
1326226-2	NO					
1326226-3	NO					
1326328-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1326339-1	NO					
1326339-6	NO					
1326339-7	NO					
1326339-8	NO					
1326353-1	NO					
1326353-3	NO					
1326362-1	NO					
1326362-3	NO					
1326362-7	NO					
1326509-1	NO					
1326729-1	NO					
1326942-3	NO					
1326964-1	NO					
1411001-1	NO		"V23542-G1508-A115"			
1411001-6	NO					
1411001-7	NO					
1411001-8	NO					
1411001-9	NO					
1411169-1	NO					
1411169-3	NO					
1411169-4	NO					
1411367-1	NO					
1432654-1	NO		"VATS-0022"			
1437882-8	NO		"109640A", "X109640A"			
1438031-1	NO		"V23542-G1516-A101"			
1438082-1	NO					
1438083-1	NO					
1438122-1	NO					
1438156-1	NO					
1438156-3	NO					
1438399-1	NO					
1438426-1	NO					
1438426-3	NO					
1438454-1	NO					
1438521-1	NO					
1438545-1	NO					
1438726-2	NO					
1438759-1	NO					
1438761-6	NO					
1438766-1	NO					
1438794-1	NO					
1438794-2	NO					
1438810-1	NO					
1438841-1	NO					
1438841-2	NO					
1438848-1	NO					
1438975-2	NO					
1443966-1	NO					
1452187-1	NO					
1456016-1	NO		"130025602403"			
1456016-2	NO		"130025602404"			
1456016-3	NO		"130025602405"			
1456016-4	NO		"130025602406"			
1456078-1	NO		"1X2078701"			
1456078-2	NO		"1X2078702"			
1456315-1	NO					
1456315-2	NO					
1456315-3	NO					
1456315-5	NO					
1456315-6	NO					
1456315-9	NO					
1456471-1	NO					
1456471-2	NO					
1456471-4	NO					
1456471-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1456471-6	NO					
1456554-1	NO					
1456601-1	NO					
1456602-2	NO					
1456867-3	NO					
1456950-2	NO					
1456987-1	NO					
1456987-3	NO					
1456987-4	NO					
1456987-5	NO					
1456987-7	NO					
1456989-1	NO					
1456989-2	NO					
1456989-3	NO					
1456989-4	NO					
1488107-1	NO					
1488573-1	NO					
1488750-1	NO					
1488846-4	NO					
1488846-6	NO					
1488903-1	NO					
1557052-1	NO					
1557636-1	NO					
1557667-1	NO					
1587041-1	NO					
1587255-1	NO					
1587268-4	NO					
1587270-5	NO					
1587392-7	NO					
1587392-8	NO					
1642407-5	NO					
1670118-1	NO					
1670120-1	NO					
1670120-2	NO					
1718981-1	NO					
1732120-1	NO					
1732120-2	NO					
1732510-3	NO					
174971-2	NO					
174973-2	NO					
174975-2	NO					
174979-2	NO					
179678-6	NO					
179679-6	NO					
179680-5	NO					
179681-6	NO					
184000-1	NO					
184002-1	NO					
184004-1	NO					
184006-1	NO					
184006-2	NO					
184008-1	NO					
184010-1	NO					
184012-1	NO					
184014-1	NO					
184016-1	NO					
184020-1	NO					
184022-1	NO					
184032-1	NO					
184034-1	NO					
184042-1	NO					
184042-2	NO					
184046-1	NO		"EM3604-000", "AMP-0-0184046-1"			
184050-2	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
184060-1	NO					
184097-1	NO					
184115-1	NO					
184116-1	NO					
184116-2	NO					
184124-1	NO					
184207-1	NO					
184212-1	NO					
184212-2	NO					
184214-1	NO					
184216-1	NO					
184220-1	NO					
184240-1	NO					
184246-1	NO					
184248-1	NO					
184254-1	NO					
184270-1	NO					
184292-1	NO					
184305-1	NO					
184311-1	NO					
184315-1	NO					
184322-1	NO					
184328-1	NO					
184334-1	NO					
184340-1	NO					
184341-1	NO					
184344-1	NO					
184346-1	NO					
184346-2	NO					
184349-1	NO					
184355-1	NO					
184355-2	NO					
184370-1	NO					
184375-1	NO					
184392-1	NO					
184392-2	NO					
184393-1	NO					
184393-2	NO					
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184396-1	NO					
184397-1	NO					
184398-1	NO					
184399-1	NO					
184400-1	NO					
184401-1	NO					
184406-1	NO					
184408-1	NO					
184408-2	NO					
184409-1	NO					
184435-1	NO					
184452-1	NO					
1924117-4	NO					
1924211-1	NO					
1924211-3	NO					
1924212-1	NO					
1924212-2	NO					
1924227-2	NO					
1924292-1	NO					
1924292-5	NO					
1924292-6	NO					
1924337-1	NO					
1924337-2	NO					
1924337-3	NO					
1924346-1	NO					
1924346-3	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1924484-1	NO					
1924639-1	NO					
1924639-2	NO					
1924779-1	NO					
1924900-1	NO					
1924900-4	NO					
1924939-1	NO					
1924940-1	NO					
1924940-5	NO					
1924940-6	NO					
1924941-1	NO					
1924941-2	NO					
1924941-4	NO					
1924941-5	NO					
1924941-6	NO					
1924941-7	NO					
1924941-8	NO					
1924941-9	NO					
1924942-1	NO					
1924942-2	NO					
1924942-3	NO					
1924942-6	NO					
1924943-1	NO					
1924944-1	NO					
1924944-2	NO					
1924944-4	NO					
1924944-6	NO					
2-1326327-8	NO					
2-1438083-1	NO					
2-1438454-1	NO					
2-1438521-4	NO					
2-1438521-5	NO					
2-1438521-7	NO					
2-1438950-1	NO					
2-1924067-0	NO					
2-1924211-1	NO					
2-1924783-9	NO					
2-1924939-2	NO					
2-1924939-4	NO					
2-1924940-3	NO					
2-1924941-0	NO					
2-1924941-1	NO					
2-2098923-0	NO					
2-2098923-1	NO					
2-2098923-2	NO					
2-2203654-3	NO					
2-2203654-9	NO					
2-638517-1	NO					
2-638518-1	NO					
2-638849-1	NO					
2-776728-5	NO					
2035024-1	NO					
2035024-2	NO					
2035037-1	NO					
2035037-2	NO					
2035239-1	NO					
2035360-1	NO					
2035360-3	NO					
2035360-5	NO					
2035363-1	NO					
2035363-2	NO					
2035363-3	NO					
2035363-4	NO					
2035363-5	NO					
2035363-6	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2035363-7	NO					
2098067-1	NO					
2098067-2	NO					
2098067-3	NO					
2098067-4	NO					
2098067-5	NO					
2098067-6	NO					
2098067-7	NO					
2098198-5	NO					
2098256-7	NO					
2098269-1	NO					
2098269-4	NO					
2098401-2	NO					
2098407-1	NO					
2098489-1	NO					
2098491-1	NO					
2098541-1	NO					
2098541-5	NO					
2098541-6	NO					
2098557-1	NO					
2098557-4	NO					
2098557-7	NO					
2098559-5	NO					
2098559-6	NO					
2098559-7	NO					
2098559-8	NO					
2098627-1	NO					
2098627-2	NO					
2098633-1	NO					
2098641-1	NO					
2098641-2	NO					
2098641-5	NO					
2098641-6	NO					
2098681-1	NO					
2098863-1	NO					
2098863-2	NO					
2098863-6	NO					
2098863-7	NO					
2098863-8	NO					
2098865-1	NO					
2098865-2	NO					
2098866-1	NO					
2098923-1	NO					
2098923-3	NO					
2098923-5	NO					
2098923-7	NO					
2098923-8	NO					
2098923-9	NO					
2098924-2	NO					
2098924-8	NO					
2098963-1	NO					
2098963-2	NO					
2098963-3	NO					
2098963-5	NO					
2098963-6	NO					
2098966-1	NO					
2098966-2	NO					
2098966-3	NO					
2098966-6	NO					
2098966-7	NO					
2138045-1	NO					
2138046-3	NO					
2138046-6	NO					
2138047-3	NO					
2138144-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2138209-1	NO					
2138250-1	NO					
2138251-1	NO					
2138252-1	NO					
2138260-1	NO					
2138274-1	NO					
2138281-2	NO					
2138314-1	NO					
2138314-5	NO					
2138314-7	NO					
2138338-5	NO					
2138338-7	NO					
2138414-1	NO					
2138731-1	NO					
2138873-4	NO					
2203111-2	NO					
2203111-6	NO					
2203111-7	NO					
2203314-1	NO					
2203314-2	NO					
2203314-3	NO					
2203318-1	NO					
2203318-2	NO					
2203321-1	NO					
2203321-2	NO					
2203321-3	NO					
2203321-6	NO					
2203321-7	NO					
2203324-2	NO					
2203516-7	NO					
2203537-1	NO					
2203541-1	NO					
2203542-1	NO					
2203654-9	NO					
2203772-1	NO					
2203781-1	NO					
2203781-2	NO					
2203918-1	NO					
2203919-1	NO					
2203937-1	NO					
2203937-4	NO					
2203937-5	NO					
2208408-1	NO					
2272006-1	NO					
2272006-2	NO					
2272010-1	NO					
2272010-2	NO					
2272419-1	NO					
2272431-1	NO					
2272431-2	NO					
2272431-3	NO					
2272926-2	NO					
2272926-3	NO					
2272975-1	NO					
2272975-5	NO					
2272975-7	NO					
2272975-9	NO					
2286018-1	NO					
2287729-2	NO					
2288276-1	NO					
2288276-2	NO					
2289050-1	NO					
2289050-2	NO					
2291594-1	NO					
2296701-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2296701-6	NO					
2297354-1	NO					
2306639-1	NO					
2306984-1	NO					
2309644-1	NO					
2309644-3	NO					
2309644-4	NO					
2311107-1	NO					
2320479-1	NO					
2324011-1	NO					
3-1326328-4	NO					
3-1326339-5	NO					
3-1326339-6	NO					
3-1326339-7	NO					
3-1326727-2	NO					
3-1326727-3	NO					
3-1326729-3	NO					
3-1437287-4	NO		"0941972R01"			
3-1437854-1	NO		"103625"			
3-1438640-2	NO					
3-1438640-5	NO					
3-1438640-7	NO					
3-1438640-9	NO					
3-1438841-8	NO					
3-1924939-1	NO					
3-1924939-4	NO					
3-1924939-5	NO					
3-2098269-1	NO					
3-2098269-2	NO					
3-2098269-3	NO					
3-2098269-6	NO					
3-2098269-7	NO					
3-2098269-8	NO					
3-2098922-3	NO					
3-2203654-2	NO					
3-2203654-4	NO					
3-2203654-5	NO					
3-638517-0	NO					
3-776729-0	NO					
4-1326339-1	NO					
4-1326339-5	NO					
4-1326339-7	NO					
4-1437287-0	NO		"0944252L01"			
4-1437287-5	NO		"130025602401"			
4-1437287-6	NO		"130025602402"			
4-1437287-7	NO		"130025603205"			
4-1437290-5	NO		"4001753201"			
4-1437290-6	NO		"4001753202"			
4-1437290-7	NO		"4001753203"			
4-1438083-3	NO					
4-1438083-4	NO					
4-1438640-5	NO					
4-1454396-1	NO		"108104D"			
4-1454396-7	NO		"X109732A"			
4-1456426-1	NO					
4-1456426-2	NO					
4-1488991-1	NO					
4-1488991-2	NO					
4-1587041-6	NO					
4-1924067-1	NO					
4-1924067-2	NO					
4-1924292-1	NO					
4-1924939-2	NO					
4-1924939-3	NO					
4-1924939-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
4-1924939-7	NO					
4-1924939-8	NO					
4-1924939-9	NO					
4-2098269-2	NO					
4-2098269-5	NO					
4-2098269-6	NO					
4-2098541-1	NO					
4-2098541-2	NO					
4-2098557-1	NO					
4-2098641-1	NO					
4-2098641-2	NO					
4-2138685-1	NO					
4-2203542-7	NO					
4-2203542-8	NO					
4-2203654-2	NO					
4-2203654-6	NO					
4-2203654-7	NO					
4-2203654-8	NO					
4-2203654-9	NO					
4-2272003-1	NO					
4-2272003-2	NO					
4-2272003-4	NO					
4-2272003-5	NO					
4-2272004-1	NO					
4-2272004-2	NO					
4-2272005-1	NO					
4-2272005-2	NO					
4-2272173-1	NO					
4-2272173-2	NO					
4-2272173-3	NO					
4-776728-0	NO					
4-776728-1	NO					
4-776728-2	NO					
4-776728-3	NO					
414946-1	NO					
5-1326339-0	NO					
5-1419166-6	NO					
5-1419167-6	NO					
5-1419168-8	NO		"V23542-G1516-D101"			
5-1437287-0	NO		"1300279"			
5-1437854-0	NO		"104055"			
5-1438082-1	NO					
5-1438841-9	NO					
5-1924939-0	NO					
5-1924939-1	NO					
5-1924939-4	NO					
5-1924939-5	NO					
5-1924939-6	NO					
5-1924939-7	NO					
5-2098269-0	NO					
5-2138685-5	NO					
5-2203541-6	NO					
5-2203541-7	NO					
5-2203542-0	NO					
5-2272352-5	NO					
5-2306984-6	NO					
5-2306984-7	NO					
6-1419166-1	NO		"V23542-G1404-A107"			
6-1419166-2	NO		"V23542-G1404-A108"			
6-1419167-1	NO		"V23542-G1416-A107"			
6-1924939-5	NO					
6-1924939-9	NO					
6-2098922-6	NO					
6-2203541-3	NO					
6-2203541-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
6-2203541-6	NO					
6-2203542-1	NO					
6-2203542-2	NO					
6-2203542-8	NO					
6-2203542-9	NO					
6-2309433-1	NO					
6-776728-8	NO					
6-776728-9	NO					
6-776729-0	NO					
6-776729-3	NO					
6-776729-4	NO					
6-776729-5	NO					
638014-1	NO					
638079-1	NO					
638082-1	NO					
638097-2	NO					
638113-1	NO					
638116-1	NO					
638119-1	NO					
638137-1	NO					
638141-1	NO					
638143-1	NO					
638147-1	NO					
638151-1	NO					
638157-1	NO					
638199-2	NO					
638207-6	NO					
638207-8	NO					
638245-1	NO					
638245-2	NO					
638286-2	NO					
638392-1	NO					
638392-2	NO					
638392-3	NO					
638393-1	NO					
638393-3	NO					
638393-5	NO					
638393-7	NO					
638394-1	NO					
638394-4	NO					
638394-5	NO					
638397-1	NO					
638444-9	NO					
638514-1	NO					
638514-8	NO					
638517-5	NO					
638518-5	NO					
638518-8	NO					
638817-3	NO					
638817-4	NO					
638817-8	NO					
638817-9	NO					
638818-2	NO					
638832-3	NO		"1000012806-0001"			
638849-7	NO					
638939-5	NO					
7-1326728-8	NO					
7-1326728-9	NO					
7-2098922-2	NO					
7-2203541-2	NO					
7-2203541-3	NO					
7-2203541-4	NO					
7-2203541-5	NO					
7-2203542-0	NO					
7-776728-0	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
7-776728-1	NO					
7-776729-2	NO					
7-776729-4	NO					
7-776729-5	NO					
776728-1	NO					
776729-1	NO					
776793-1	NO					
776793-2	NO					
776905-1	NO					
776905-8	NO					
776932-1	NO					
776932-3	NO					
776932-4	NO					
9-1419157-6	NO		"V23542-G1410-A107"			
9-1419166-0	NO		"V23542-G1408-A101"			
9-1438082-2	NO					
9-1454396-3	NO		"X109644C"			
917981-1	NO					
917981-2	NO					
917981-6	NO					
917989-1	NO		"0-0917989-1"			
917989-2	NO					
917989-6	NO					
917992-1	NO					
917992-6	NO					

Section 3

Customer Engineering Approval

Section 4

Design FMEA

See Section A for nondisclosure conditions.
The Design FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.

Section 5

Process Flow Diagram

See Section A for nondisclosure conditions.
The Process Flow Diagram, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.

Section 6

Process FMEA

See Section A for nondisclosure conditions.
The Process FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.

Section 7

Control Plan

See Section A for nondisclosure conditions.
The Control Plan, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.

Section 8

Measurement System Analysis

DATA - GRR ATTRIBUTE STUDY

Empalme Site

DATE:	19-Apr-19
REQUEST:	Mario Baidon
QUALITY ENGINEER:	Mario Baidon
MANUFACTURE ENGINEER	Josue Garcia
PLANT:	Plant 2
SPC TECHNICIAN:	Eliseo Cazarez
PART NUMBER:	2098067-4
COMMENT General:	Vision System 49459123

Work Center:	9992
NUM. Gage-Fixture	49459123
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	**2019-0761**

Known Population				-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
# ID	Num Sample	DETAILS	Standard	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
1	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
2	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
3	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
4	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
5	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
6	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
7	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
8	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
9	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
10	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
11	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
12	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
13	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
14	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
15	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
16	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
17	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
18	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
19	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
20	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
21	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
22	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
23	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
24	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
25	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
26	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
27	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
28	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
29	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
30	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK

DATA - GRR ATTRIBUTE STUDY

Empalme Site

DATE:	19-Apr-19
REQUEST:	Mario Baidon
QUALITY ENGINEER:	Mario Baidon
MANUFACTURE ENGINEER	Josue Garcia
PLANT:	Plant 2
SPC TECHNICIAN:	Eliseo Cazarez
PART NUMBER:	2098067-4
COMMENT General:	Vision System 49459123

Work Center:	9992
NUM. Gage-Fixture	49459123
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	**2019-0761**

Known Population				-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
# ID	Num Sample	DETAILS	Standard	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
31	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
32	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
33	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
34	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
35	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
36	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
37	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
38	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
39	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
40	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
41	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
42	5	WRONG HOUSING	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
43	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
44	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
45	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
46	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
47	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
48	6	WRONG TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
49	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
50	4	PARTIALLY CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK

Final comments of the study:

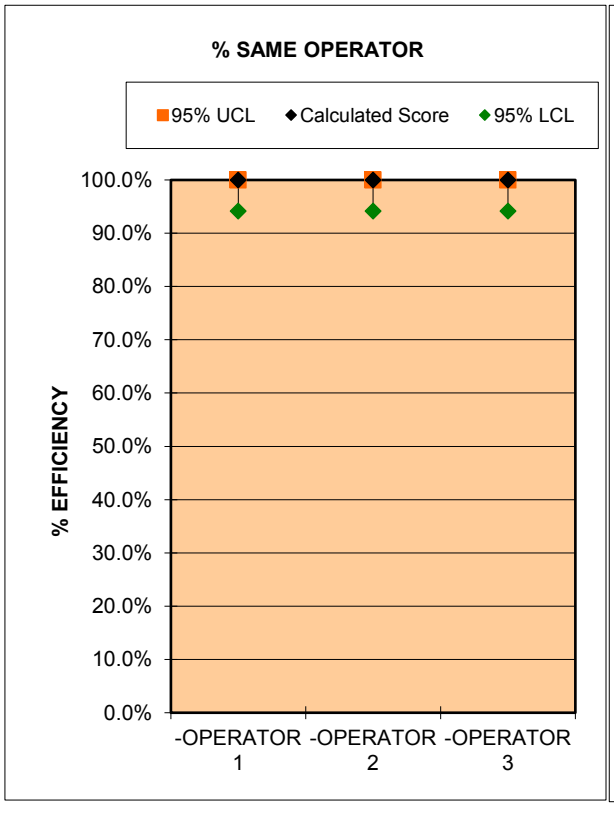
SPC Technician: Must be sent to answer to request, quality engineer and manufacture engineer.

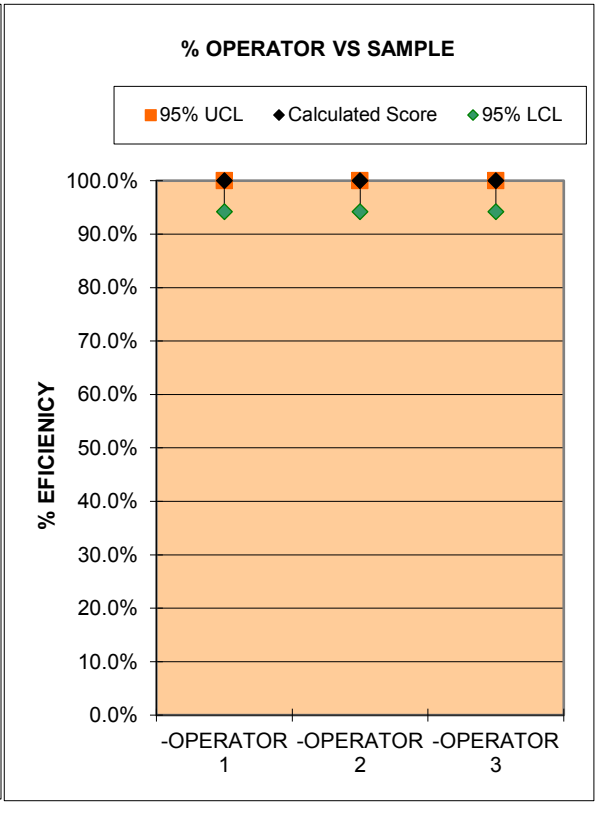
REPORT GRR ATTRIBUTE

DATE	19-Apr-19	ID - EQUIPMENT
STANDAR RECORD	*2019-0761*	49459123
Work Center:	9992	
RESULT	ACCEPTED	

	% OPER VS OPER			% OPER VS SAMPLE		
Operators	- OPERATOR 1	- OPERATOR 2	- OPERATOR 3	- OPERATOR 1	- OPERATOR 2	- OPERATOR 3
Inspeced total	50	50	50	50	50	50
# Agreement	50	50	50	50	50	50
95% UCL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Calculated Score	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**
95% LCL	94.18%	94.18%	94.18%	94.18%	94.18%	94.18%

	Screen % Effective Score	Screen % Effective Score vs Standard
Total Inspected	50	50
coincidencias	50	50
95% UCL	100.0%	100.0%
Calculated Score	**100.0%**	**100.0%**
95% LCL	94.18%	94.18%





Section 9

Dimensional Results

Production Part Approval

DIMENSIONAL TEST RESULTS

ACT-1173

TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity

Supplier/Vendor Code:

INSPECTION FACILITY:

TE Connectivity Empalme Metrology lab

Part Number: 2098067-X

Part Name: PLUG ASSEMBLY UNSEALED HYBRID A BCM

Design Record Change Level: C-2098067 REV. C

Engineering Change Documents: N/A

Folio: 45253

Item	Dim./Spec.	Spec. / Limits		Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID
		tol +	tol -		SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6			
1	20.30	0.2	0.2	mm	20.271	20.268	20.289	20.275	20.281	20.271	✔		LMMC-009
2	19.64	0.2	0.2	mm	19.591	19.610	19.608	19.591	19.588	19.602	✔		LMMC-009
3	4.15	REF	REF	mm	4.099	4.102	4.098	4.088	4.102	4.106	✔		LMMC-009
	4.15	REF	REF	mm	4.088	4.074	4.091	4.085	4.073	4.072	✔		
4	6.90	REF	REF	mm	6.888	6.879	6.891	6.873	6.882	6.891	✔		LMMC-009
5	2.30	REF	REF	mm	2.322	2.319	2.329	2.309	2.324	2.317	✔		LMMC-009
6	2.30	REF	REF	mm	2.259	2.268	2.271	2.265	2.257	2.264	✔		LMMC-009
7	6.90	REF	REF	mm	6.829	6.841	6.835	6.849	6.835	6.842	✔		LMMC-009
8	6.90	REF	REF	mm	6.866	6.871	6.859	6.881	6.874	6.880	✔		LMMC-009
	6.90	REF	REF	mm	6.837	6.847	6.852	6.849	6.833	6.842	✔		
	6.90	REF	REF	mm	6.822	6.835	6.840	6.829	6.835	6.841	✔		
	6.90	REF	REF	mm	6.855	6.841	6.851	6.834	6.841	6.836	✔		
9	1.90	REF	REF	mm	1.872	1.881	1.824	1.865	1.873	1.821	✔		LMMC-009
	1.90	REF	REF	mm	1.869	1.872	1.854	1.840	1.849	1.863	✔		
	1.90	REF	REF	mm	1.847	1.853	1.869	1.871	1.888	1.865	✔		
	1.90	REF	REF	mm	1.853	1.841	1.872	1.860	1.871	1.869	✔		
	1.90	REF	REF	mm	1.868	1.862	1.888	1.869	1.873	1.864	✔		
	1.90	REF	REF	mm	1.871	1.888	1.869	1.871	1.891	1.869	✔		
10	1.90	REF	REF	mm	1.914	1.926	1.896	1.908	1.916	1.923	✔		LMMC-009
	1.90	REF	REF	mm	1.923	1.926	1.919	1.932	1.924	1.917	✔		
	1.90	REF	REF	mm	1.932	1.947	1.948	1.936	1.942	1.942	✔		
	1.90	REF	REF	mm	1.948	1.953	1.939	1.948	1.947	1.936	✔		
	1.90	REF	REF	mm	1.926	1.914	1.930	1.922	1.941	1.935	✔		
	1.90	REF	REF	mm	1.948	1.952	1.937	1.948	1.951	1.946	✔		
	1.90	REF	REF	mm	1.938	1.926	1.948	1.941	1.940	1.945	✔		
11	5.70	REF	REF	mm	5.698	5.686	5.691	5.681	5.693	5.702	✔		LMMC-009
	5.70	REF	REF	mm	5.743	5.729	5.733	5.741	5.738	5.741	✔		
	5.70	REF	REF	mm	5.742	5.736	5.741	5.731	5.749	5.736	✔		
	5.70	REF	REF	mm	5.721	5.741	5.735	5.741	5.738	5.731	✔		
	5.70	REF	REF	mm	5.739	5.731	5.749	5.720	5.732	5.741	✔		
	5.70	REF	REF	mm	5.721	5.743	5.750	5.731	5.731	5.740	✔		
12	9.50	REF	REF	mm	9.468	9.474	9.480	9.475	9.475	9.468	✔		LMMC-009
	9.50	REF	REF	mm	9.521	9.490	9.522	9.528	9.528	9.499	✔		
	9.50	REF	REF	mm	9.536	9.521	9.547	9.531	9.531	9.516	✔		
	9.50	REF	REF	mm	9.508	9.491	9.486	9.521	9.521	9.499	✔		
	9.50	REF	REF	mm	9.509	9.511	9.521	9.520	9.520	9.521	✔		

SIGNATURE	TITLE	DATE
Daniel Zazueta	Metrology Chief	ABR-23-2019

Production Part Approval

DIMENSIONAL TEST RESULTS

ACT-1173

TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity

Supplier/Vendor Code:

INSPECTION FACILITY:

TE Connectivity Empalme Metrology lab

Part Number: 2098067-X

Part Name: PLUG ASSEMBLY UNSEALED HYBRID A BCM

Design Record Change Level: C-2098067 REV. C

Engineering Change Documents: N/A

Folio: 45253

Item	Dim./Spec.	Spec. / Limits tol +	Spec. / Limits tol -	Units	Organization Measurement Results (Data) SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	Ok	Not Ok	Instrument # ID
	9.50	REF	REF	mm	9.521	9.491	9.511	9.496	9.523	9.514	✔		
13	7.62	REF	REF	mm	7.599	7.586	7.585	7.573	7.591	7.584	✔		LMMC-009
	7.62	REF	REF	mm	7.574	7.565	7.589	7.574	7.563	7.589	✔		LMMC-009
	7.62	REF	REF	mm	7.565	7.579	7.563	7.579	7.568	7.571	✔		LMMC-009
	7.62	REF	REF	mm	7.571	7.566	7.584	7.571	7.569	7.574	✔		LMMC-009
14	5.08	REF	REF	mm	5.052	5.061	5.058	5.073	5.066	5.079	✔		LMMC-009
	5.08	REF	REF	mm	5.061	5.066	5.071	5.065	5.071	5.072	✔		LMMC-009
	5.08	REF	REF	mm	5.038	5.049	5.037	5.041	5.037	5.044	✔		LMMC-009
	5.08	REF	REF	mm	5.044	5.036	5.039	5.046	5.045	5.037	✔		LMMC-009
15	2.54	REF	REF	mm	2.521	2.530	2.546	2.528	2.519	2.536	✔		LMMC-009
	2.54	REF	REF	mm	2.529	2.531	2.543	2.528	2.536	2.541	✔		LMMC-009
	2.54	REF	REF	mm	2.541	2.530	2.529	2.537	2.541	2.537	✔		LMMC-009
	2.54	REF	REF	mm	2.531	2.521	2.540	2.546	2.539	2.538	✔		LMMC-009
16	0.00	REF	REF	mm	0.001	0.002	0.003	0.002	0.006	0.003	✔		LMMC-009
	0.00	REF	REF	mm	0.006	0.004	0.006	0.007	0.005	0.004	✔		LMMC-009
	0.00	REF	REF	mm	0.007	0.006	0.007	0.006	0.004	0.005	✔		
	0.00	REF	REF	mm	0.008	0.007	0.006	0.004	0.005	0.004	✔		
17	2.54	REF	REF	mm	2.549	2.536	2.548	2.541	2.536	2.531	✔		LMMC-009
	2.54	REF	REF	mm	2.545	2.549	2.536	2.540	2.537	2.539	✔		LMMC-009
	2.54	REF	REF	mm	2.537	2.526	2.538	2.540	2.536	2.537	✔		LMMC-009
	2.54	REF	REF	mm	2.518	2.527	2.524	2.528	2.519	2.536	✔		
18	5.08	REF	REF	mm	5.048	5.036	5.044	5.035	5.036	5.037	✔		LMMC-009
	5.08	REF	REF	mm	5.033	5.029	5.037	5.040	5.035	5.033	✔		LMMC-009
	5.08	REF	REF	mm	5.041	5.036	5.039	5.043	5.036	5.046	✔		LMMC-009
	5.08	REF	REF	mm	5.036	5.041	5.035	5.031	5.022	5.039	✔		LMMC-009
19	7.62	REF	REF	mm	7.592	7.586	7.594	7.589	7.590	7.584	✔		LMMC-009
	7.62	REF	REF	mm	7.578	7.589	7.573	7.584	7.536	7.541	✔		LMMC-009
	7.62	REF	REF	mm	7.569	7.573	7.549	7.538	7.541	7.546	✔		LMMC-009
	7.62	REF	REF	mm	5.577	7.580	7.573	7.576	7.586	7.581	✔		
20	25.30	0.2	0.2	mm	25.236	25.216	25.208	25.221	25.235	25.217	✔		LMMC-009
21	23.50	0.2	0.2	mm	23.482	23.479	23.481	23.479	23.491	23.486	✔		LMMC-009
22	29.50	REF	REF	mm	29.752	29.736	29.747	29.735	29.736	29.740	✔		LMMC-009
23	1.10	REF	REF	mm	1.021	1.011	0.999	0.992	1.001	1.016	✔		LMMC-009
24	29.10	REF	REF	mm	29.149	29.160	29.157	29.148	29.151	29.153	✔		LMMC-009
25	20.30	REF	REF	mm	20.281	20.276	20.283	20.281	20.275	20.275	✔		LMMC-009
26	2.54	REF	REF	mm	2.474	2.489	2.491	2.485	2.490	2.487	✔		LMMC-009

SIGNATURE	TITLE	DATE
Daniel Zazueta	Metrology Chief	ABR-23-2019

Production Part Approval

DIMENSIONAL TEST RESULTS

ACT-1173

TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity

Supplier/Vendor Code:

INSPECTION FACILITY:

TE Connectivity Empalme Metrology lab

Part Number: 2098067-X

Part Name: PLUG ASSEMBLY UNSEALED HYBRID A BCM

Design Record Change Level: C-2098067 REV. C

Engineering Change Documents: N/A

Folio: 45253

Item	Dim./Spec.	Spec. / Limits tol +	Spec. / Limits tol -	Units	Organization Measurement Results (Data) SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	Ok	Not Ok	Instrument # ID
27	20.30	REF	REF	mm	20.271	20.285	20.291	20.285	20.282	20.290	✔		LMMC-009
28	2.54	REF	REF	mm	2.584	2.569	2.575	2.568	2.579	2.581	✔		LMMC-009
29	20.30	REF	REF	mm	20.269	20.271	20.259	20.264	20.265	20.272	✔		LMMC-009
30	5.08	REF	REF	mm	5.022	5.041	5.037	5.028	5.037	5.029	✔		LMMC-009
31	20.30	REF	REF	mm	20.261	20.254	20.243	20.250	20.269	20.255	✔		LMMC-009
32	5.08	REF	REF	mm	5.083	5.079	5.081	5.083	5.075	5.084	✔		LMMC-009
33	20.30	REF	REF	mm	20.266	20.259	20.265	20.261	20.254	20.260	✔		LMMC-009
34	0.00	REF	REF	mm	0.022	0.041	0.036	0.032	0.029	0.038	✔		LMMC-009
35	20.30	REF	REF	mm	20.271	20.286	20.275	20.273	20.275	20.269	✔		LMMC-009
36	5.08	REF	REF	mm	5.076	5.069	5.081	5.073	5.075	5.077	✔		LMMC-009
37	2.54	REF	REF	mm	2.495	2.508	2.496	2.507	2.506	2.497	✔		LMMC-009
38	19.64	REF	REF	mm	ONLY 2098067-7						✔		
39	2.54	REF	REF	mm	ONLY 2098067-7						✔		
40	5.08	REF	REF	mm	ONLY 2098067-7						✔		
	NOTES:												
1	2098067-6 SHOWN, SEE PART NUMBER TABLE AND CIRCUIT AND KEYING ARRANGEMENT VIEWS TABLE ON SHEET 2.			visual	OK	OK	OK	OK	OK	OK	✔		
2	SECONDARY LOCK PLATE TO BE SHIPPED IN STAGED POSITION, SHOULD SECONDARY LOCK PLATE BECOME ENGAGED, PLEASE SEE INSTRUCTION SHEET 408-10318 FOR DIRECTION ON DISENGAGING THE SECONDARY LOCK PLATE.			visual	OK	OK	OK	OK	OK	OK	✔		
3	SIGNAL TERMINALS, TE GENERATION Y, DRAWING NO. 1924727.				NOTED PER APQP TEAM						✔		
4	USE WITH POWER TERMINALS, SUMITOMO US280, PART NUMBERS 8100 - 4443, 8100 - 4444, 8100 - 4445.				NOTED PER APQP TEAM						✔		
5	USE WITH MATING INTERFACE SHOWN ON THE DRAWING NUMBER 2098385				NOTED PER APQP TEAM						✔		
6	GMW3191 PERFORMANCE STANDARD, WHERE APPLICABLE, EXCEPT THE AVERAGE PRIMARY TERMINAL EXTRACTION FORCE TO BE EQUAL TO OR GREATER THAN 25N FOR THE 0.64 TERMINAL AND SECONDARY LOCK PLATE ENGAGE FORCE TO BE 59N MAX.				NOTED PER APQP TEAM						✔		
7	TEMPERATURE CLASS I, -40ºC TO 85ºC				NOTED PER APQP TEAM						✔		
8	SEE " CIRCUIT AND KEYING ARRANGEMENT VIEWS" TABLE ON SHEET 2 FOR NUMERIC CHARACTERS.			Visual	OK	OK	OK	OK	OK	OK	✔		

SIGNATURE: Daniel Zazueta

TITLE: Metrology Chief

DATE: ABR-23-2019

Production Part Approval

DIMENSIONAL TEST RESULTS

ACT-1173

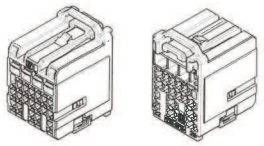
TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 2098067-X
Supplier/Vendor Code:	Part Name: PLUG ASSEMBLY UNSEALED HYBRID A BCM
INSPECTION FACILITY:	Design Record Change Level: C-2098067 REV. C
TE Connectivity Empalme Metrology lab	Engineering Change Documents: N/A
	# Folio: 45253 Page ___4__ of ___4___

Item	Dim./Spec.	Spec. / Limits tol +	tol -	Units	Organization Measurement Results (Data) SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	Ok	Not Ok	Instrument # ID
9	CROSSHATCHING INDICATES A BLOCKED CIRCUIT CAVITY. CAVITY WILL NOT ACCEPT TERMINAL INSERTION. SEE " CIRCUIT AND KEYING ARRANGEMENT VIEWS " ON SHEET 2.			Visual	OK	OK	OK	OK	OK	OK	✔		
	TOTAL # OF FEATURES						498						
	LESS BASIC DIMENSIONS						0						
	LESS REFERENCE DIMENSIONS						474						
	REPORTED DIMENSIONS							24					
	# DIMENSIONS IN TOLERANCE							24					
	# DIMENSIONS OUT OF TOLERANCE							0					
	% DIMENSION IN TOLERANCE							100.00 %					
	% DIMENSION OUT OF TOLERANCE							0.00 %					

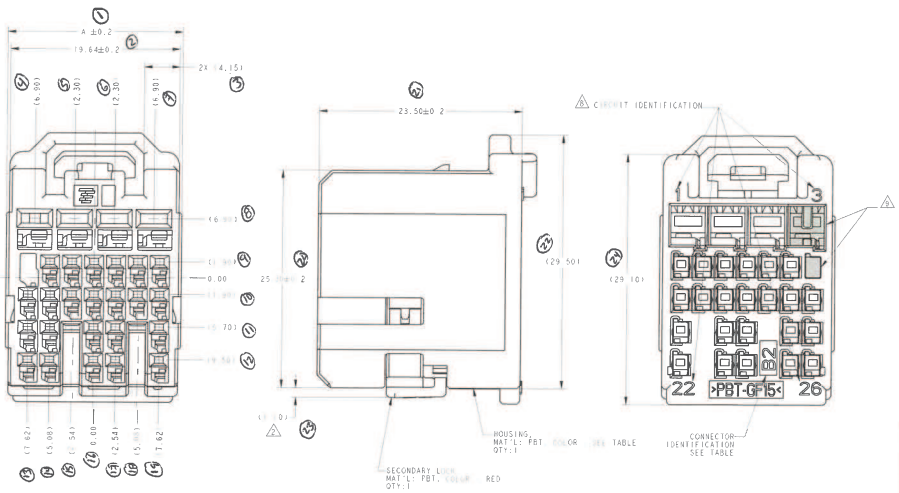
SIGNATURE	TITLE	DATE
Daniel Zazueta	Metrology Chief	ABR-23-2019

REV	SHEET	REVISIONS			
		LTR	DESCRIPTION	DATE	APVD
UN	00	B	REVISED PER ECO-11-010415	21OCT2011	BLD CJS
		B1	REVISED PER ECO-12-012269	19JUL2012	BLD CJS
		C	REVISED PER ECO-12-017192	08NOV2012	BLD CJS



ISOMETRIC VIEWS
SCALE 2:1

1. 2098067-6 SHOWN. SEE PART NUMBER TABLE AND CIRCUIT AND KEYING ARRANGEMENT VIEWS TABLE ON SHEET 2.
2. SECONDARY LOCK PLATE TO BE SHIPPED IN STAGED POSITION. SHOULD SECONDARY LOCK PLATE BECOME ENGAGED, PLEASE SEE INSTRUCTION SHEET 408-10318 FOR DIRECTION ON DISENGAGING THE SECONDARY LOCK PLATE.
3. SIGNAL TERMINALS, TE GENERATION Y, DRAWING NO. 1924727.
4. USE WITH POWER TERMINALS, SUMITOMO 8230, PART NUMBERS 8100-4443 8100-4444, 8100-4445.
5. USE WITH MATING INTERFACE SHOWN ON TE DRAWING NUMBER 2098385.
6. GMW3191 PERFORMANCE STANDARD, WHERE APPLICABLE, EXCEPT THE AVERAGE PRIMARY TERMINAL EXTRACTION FORCE TO BE EQUAL TO OR GREATER THAN 25N FOR THE 0.64 TERMINAL AND SECONDARY LOCK PLATE ENGAGE FORCE TO BE 48N MAX.
7. TEMERATURE CLASS 1, -40° C TO 85° C.
8. SEE "CIRCUIT AND KEYING ARRANGEMENT VIEWS" TABLE ON SHEET 2 FOR NUMERIC CHARACTERS.
9. CROSSHATCHING INDICATES A BLOCKED CIRCUIT CAVITY. CAVITY WILL NOT ACCEPT TERMINAL INSERTION. SEE "CIRCUIT AND KEYING ARRANGEMENT VIEWS" ON SHEET 2.



PARTITIONED	GREEN	CL	N/A	1-2098067-7
PARTITIONED	GRAY	B2	20.30	1-2098067-6
PARTITIONED	PINK	B1	20.30	1-2098067-5
PARTITIONED	BROWN	U2	20.30	1-2098067-4
PARTITIONED	BLACK	U1	20.30	1-2098067-3
PARTITIONED	BLUE	IP2	20.30	1-2098067-2
PARTITIONED	NATURAL	IP1	20.30	1-2098067-1
BULK	GREEN	CL	N/A	2098067-7
BULK	GRAY	B2	20.30	2098067-6
BULK	PINK	B1	20.30	2098067-5
BULK	BROWN	U2	20.30	2098067-4
BULK	BLACK	U1	20.30	2098067-3
BULK	BLUE	IP2	20.30	2098067-2
BULK	NATURAL	IP1	20.30	2098067-1
PACKAGING	HOUSING COLOR	CONNECTOR IDENTIFICATION	DIM A	PART NUMBER

Digitally signed by Gladys Gallegos
Date: 2019.04.22 10:33:12 -0700

THIS DRAWING IS A CONTROLLED DOCUMENT

TE Connectivity

PLUG ASSEMBLY, UNSEALED HYBRID, 4 BCM

CAGE CODE | DRAWING NO: A | 00779 | C-2098067

Customer Drawing

SIZE: A1 | SHEET 1 OF 2 | REV C

REVISIONS

LTR	DESCRIPTION	DATE	DWN	APVD
	SEE SHEET 1			

Digitally signed by Gladys Gallegos
Date: 2019.04.22 10:33:38 -07'00'

THIS DRAWING IS A CONTROLLED DOCUMENT

TE Connectivity

PLUG ASSEMBLY, UNSEALED HYBRID, A BCM

Customer Drawing

Section 10

Material, Performance Test Results

Statement of Compliance

Requested Part

24 April 2019 **2098065-1** (Part 1 of 1)

TE Internal Number:	2098065-1
Product Description:	Plug, Unsealed, Hybrid, BCM, IP1, A Key
Part Status:	Active
Mil-Spec Certified:	No
EU RoHS Directive: 2011/65/EU	Compliant
EU RoHS Directive with Phthalates Amendment: 2011/65/EU, 2015/863/EU	Compliant

The 4 Phthalates substances of amendment 2015/863/EU only become restricted as of 22 July 2019 for all electrical and electronic equipment, apart from Categories 8 (medical devices) and 9 (monitoring and control equipment) for which the restriction applies as of 22 July 2021.

EU ELV Directive: 2000/53/EC	Not Yet Reviewed
China RoHS: MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH SvHC Compliance: (EC) No. 1907/2006	Current ECHA Candidate List: **JAN 2019 (197)** Candidate List Declared Against: **JAN 2019 (197)** Does not contain REACH SVHC
Halogen Content:	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability Code:	Not applicable for solder process capability

TE Connectivity Corporation

1050 Westlakes Drive

Berwyn, PA 19312

Statement of Compliance

Requested Part

24 April 2019 **2098066-1** (Part 1 of 1)

TE Internal Number:	2098066-1
Product Description:	Secondary Lock Plate, BCM, IP1, A Key
Part Status:	Active
Mil-Spec Certified:	No
EU RoHS Directive: 2011/65/EU	Compliant
EU RoHS Directive with Phthalates Amendment: 2011/65/EU, 2015/863/EU	Compliant

The 4 Phthalates substances of amendment 2015/863/EU only become restricted as of 22 July 2019 for all electrical and electronic equipment, apart from Categories 8 (medical devices) and 9 (monitoring and control equipment) for which the restriction applies as of 22 July 2021.

EU ELV Directive: 2000/53/EC	Not Yet Reviewed
China RoHS: MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH SvHC Compliance: (EC) No. 1907/2006	Current ECHA Candidate List: **JAN 2019 (197)** Candidate List Declared Against: **JAN 2019 (197)** Does not contain REACH SVHC
Halogen Content:	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability Code:	Not applicable for solder process capability

TE Connectivity Corporation

1050 Westlakes Drive

Berwyn, PA 19312

Section 11

Initial Process Studies

Fit, form and function will not be affected, CPK is not applicable also because the dimensional plane not showing any special characteristics.

Section 12

Qualified Laboratory Documentation

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

TE Connectivity - Empalme
Carretera Internacional Km. 1969 Guad-Nog. Km.2
Sonora, C.P. 85340, Mexico

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the fields of

CALIBRATION & TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations / tests to which this accreditation applies.

ACT-1173
Certificate Number

ANAB Approval

Certificate Valid: 04/24/2018-05/03/2019
Version No. 004 Issued: 04/24/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TE Connectivity - Empalme

Carretera Internacional Km.1969 Guad-Nog. Km.2,
Sonora, C.P. 85340, Mexico
Daniel Zazueta 011-622-225-1174

CALIBRATION & TESTING

Valid to: **May 3, 2019** Certificate Number: **ACT-1173**

Mechanical Testing

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Force (0 to 200) lbf	Equipment Manual	Wiring Harnesses, Plastic and Metal Automotive Components	Force Gage
Mass (0 to 4) kg	Equipment Manual	Plastic and Metal Automotive Components	Scales
Moisture Content 45 g (50 to 200) ºC	Work Instruction AEW021T-LB, Equipment Manual	Plastic Automotive Components	Ohaus MB 45 Moisture Analyzer
Melt Flow Rate	Work Instruction AEW022T-LB based on ASTM D1238, Equipment Manual	Plastic Automotive Components	Extrusion Plastometer Oven

Dimensional Measurement/Testing

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Dimensions 210 mm (X) 215 mm (Y) 100 mm (Z)	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	Vision Systems
Dimensions Up to 50 mm	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	Digital Height Indicator

Dimensional Measurement/Testing

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Dimensions Up to 0.8 mm	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	Dial Test Indicator
Dimensions Up to 200 mm	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	Calipers
Dimensions Up to 25.4 mm	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	Micrometers
Dimensions 609 mm (X) 609 mm (Y) 457 mm (Z)	ASME Y14.5M, Engineering Drawing, Equipment Manual	Plastic and Metal Automotive Components	CMM
Dimensions Up to 8 m	ASME Y14.5M, Engineering Drawing.	Wiring Harnesses Automotive Components	Steel Measuring Tapes
Dimensions Up to 1 220 mm	ASME Y14.5M, Engineering Drawing.	Wiring Harnesses Automotive Components	Steel Rule

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)[1]	Reference Standard, Method and/or Equipment
Steel Measuring Tapes	Up to 8 m	0.32 mm / 50 cm	Digital Scale Work Instruction AEW001T-LB Tyco Spec 117-95 Calibration Steel Measuring Tapes. JIS B 7512 (1993)
Steel Rules	Up to 1 220 mm	0.060 mm / 50 cm	Master Height Gage Digital Scale Work Instruction AEW001T-LB Tyco Spec. 117-94 Calibration Steel Rules, JIS B 7516 (1987)
Granite Surfaces Plates Repeatability Resolution 0.00001 in	(12 x 18) in to (40 x 60) in	36 µin	Mahr Repeatometer Precision Dial Indicator Work Instruction AEW002T-LB, JIS B 7513 (1992),GGG-P-463c-1973
Dial Test Indicator (lever-type)	Up to 1 mm	0.012 mm	Height Master Work Instruction AEW004T-LB, JIS B 7533 (1990), Tyco Spec 117-14 Dial Indicator, Electronic and

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)[1]	Reference Standard, Method and/or Equipment
Calipers	Up to 200 mm	0.023 mm	Gage Blocks Ring Gages Work Instruction AEW005T-LB, JIS B 7507 (1993), Tyco Spec 117-9 Caliper, Vernier, Dial and Digital
Micrometer	Up to 25.4 mm	0.0016 mm	Gage Blocks Grade 2 Work Instruction AEW006T-LB, JIS B 7502 (1994), Tyco Spec 117-5 Micrometer, Inch/Metric, Outside, Blade and Flange
Optical Comparator	Up to 300 mm (X,Y)	0.0046 mm	Glass Scale Work Instruction AEW007T-LB, JIS B 7184:1999, Tyco Spec 117-19 Optical Comparators
Video Comparator	Up to 300 mm (X,Y,Z)	0.0052 mm	Glass Scale Gage Blocks Work Instruction AEW007T-LB. JIS B 7184:1999
Digital Height Indicator (Travel-Type)	Up to 50 mm	0.0021 mm	Gage Blocks Work Instruction AEW008T-LB, Tyco Spec. 117-14 Dial Indicator Electronic and Mechanical

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)[1]	Reference Standard, Method and/or Equipment
Force Gage	Up to 200 lb·f	0.12 lb·f	Master Weights Work Instruction AEW003T-LB, Tyco Spec 117-70 Force Gages
Scales (0.01 g Resolution)	(0 to 4) kg	0.45 g	Master Weights Class OIML M3 & ASTM 6 Work Instruction AEW013T-LB, NOM-010-SCFI-1994

Notes:

1. Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

2. L in uncertainties represents length in inches.
3. The uncertainty associated when calibrating a balance/scale is dependent on local conditions, such as the resolution of the unit being calibrated and the environment in which the balance/scale is operating. The uncertainty listed in the scope here represents the best uncertainty for a balance/scale which the organization typically calibrates in its lab. Since field (on-site) conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field (on-site) than what is reported on the accredited scope.
4. This scope is formatted as part of a single document including the Certificate of Accreditation No. ACT-1173.

Vice President

By Royal Charter

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

TE Connectivity
Global Automotive Division
Americas North
Carretera Internacional, KM 1969
Guadalajara-Nogales Km 2
Empalme
Sonora
85340
Mexico

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Design and manufacture of electrical interconnecting devices.

For and on behalf of BSI:

Carlos Pitanga, Chief Operating Officer Assurance – Americas

BSI Certificate Number: 514458-003
IATF Number: 0315420

...making excellence a habit.™

Certification Date: 2018-07-11 Latest Issue: 2018-07-11 Expiry Date: 2021-07-10

Location	Registered Activities
TE Connectivity Global Automotive Division Americas North Carretera Internacional, KM 1969 Guadalajara-Nogales Km 2 Empalme Sonora 85340 Mexico	Manufacture of interconnecting devices. Including the following remote support functions: TE Connectivity Global Automotive Division Americas North 900 Wilshire Boulevard Suite 150 Troy, MI 48084 Design and Development. TE Connectivity Global Automotive Division Americas North Fulling Mill Road Middletown, PA 17057 Design and Development, Product Testing and Customer Service. TE Connectivity Global Automotive Division Americas North 3800 Reidsville Road Winston-Salem, NC 27102 Design and Development, Product Testing and Calibration, Business Office (Quote Process) and Purchasing. TE Connectivity Global Automotive Division Americas North 20 Esna Park Drive Markham, Ontario L3R 1E1 Canada Design and Development and product testing (optics lab) TE Connectivity Global Automotive Division Americas North 2100 Paxton Street Harrisburg, PA 17111 Provision of Product Testing to TE Connectivity Manufacturing Sites. TE Connectivity North Carolina Distribution Center 8000 Piedmont Triad Parkway Greensboro, North Carolina 27409 Receiving Inspection, Storage / Inventory.

BSI Certificate Number: 514458-003

IATF Number: 0315420

Certification Date: 2018-07-11 Latest Issue: 2018-07-11 Expiry Date: 2021-07-10

Section 13

Appearance Approval Report

Not Applicable

Section 14

Sample Product

Sent in separate package
(if required)

Section 15

Master Sample

Retained at manufacturing location

Section 16

Checking Aids

Not Applicable

Section 17

Records of Compliance with Customer-Specific Requirements

MDS Report
Substances of assemblies and materials

This report is for internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DXC Technology. Parsing is not allowed.

1. Company and Product Name

1.1 Supplier Data

Name ID	**Tyco Electronics GAD [913]**
DUNS Number:	**-**
Street/Postal Code:	**Amperestr. 12-14**
Nat./ZipCode/City:	**DE 64625 Bensheim**
Supplier Code:	**-**
Contact Person:	**IMDS Team (India) Engineering Services**
- Phone:	**-**
- Fa No.:	**-**
- E-Mail Address:	**imds@te.com**

1.2 Product Identification

Part/Item No.:	**2098067-4**
Description:	**Plug Assy, Unsealed, Hybrid, A BCM**
Report No.:	**-**
Date of Report:	**-**
Purchase Order No.:	**-**
Bill of Delivery No.:	**-**
Preliminary MDS:	**No**
IMDS ID / Version:	**129457925 / 5**
Node ID:	**796525491**
MDS Status (Change Date):	**Internally released (01/17/2019)**

MDS Report

Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!
Dangerous substances formed or released during use must also be declared
Please note: GADSL list for substances that require declaration

2. Characteri□ation of the Component

Part/Item No.:	**2098067-4**	Report No.:	**-**
Description:	**Plug Assy, Unsealed, Hybrid, A BCM**	IMDS ID / Version:	**129457925 / 5**
		Node ID:	**796525491**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	Plug Assy, Unsealed, Hybrid, A BCM	2098067-4	129457925 / 5		7.73				
├2	Plug Unsealed, Hybrid, BCM-Brown	2098065-	129455242 / 5	1	7.03				Yes
├3	PBT-GF15	4-703298-2	776455679 / 1		7.03			5.1.a	No
├4	PBT	-				83.809524	80 - 90		

Tree Level	Description / Article Name / Name / Substance name	Part/Item No. / Item- /Mat.-No. / Material-No. / CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. / GADSL, SVHC	Parts Marking / Recyclate (Indust./Consumer) / Application [ID]
4	GF-Fibre	-				13.904762	12 - 17		
4	Further Additives, not to declare	system				1.142857	0 - 3		
4	Pigment portion, not to	system				1.142857	0 - 3		
2	Secondary Lock, Hybrid, BCM-Red	2098066-	129456939 / 7	1	0.7				Not Applicable
3	PBT□PET-GF15	704287-2 □ 704546-4	796524599 / 1		0.7			5.1.a	No
4	PBT□PET-GF15	704287-2	602774818 / 1			97.5		5.1.a	
5	PBT□PET	-				83.809524	80 - 90		
5	GF-Fibre	-				13.904762	12 - 17		
5	Further Additives, not to declare	system				1.142857	0 - 3		
5	Pigment portion, not to	system				1.142857	0 - 3		
4	PBT Colorant Red	704546-	788054990 / 1			2.5	2 - 3	5.1.b	
5	Zinc distearate	557-05-1				2.5	1.99 - 3.01		
5	Titanium-dio□ide	13463-67-7				0.33	0.22 - 0.44		
5	Ethylene-vinyl acetate copolymer	24937-78-8				7.8	7.4 - 8.2		
5	12H-Phthaloperin-12-one	6925-69-5				0.77	0.65 - 0.89		
5	C.I. Solvent Red 135	20749-68-2				2.36	2.27 - 2.45		
5	PBT	-				86.24			

This is an uncontrolled copy of a document created by IMDS. End of the report.

Section 18

Part Submission Warrant

Part Submission Warrant

Part Name: Plug Assembly, Hybrid, BCM, U2, D Key
Cust. Part Number: 13826916
Shown on Drawing No.: C-2098067
Org. Part Number: 2098067-4
Engineering Change Level: C
Dated: Nov 01, 2012
Additional Engineering Changes: N / A
Dated: N / A
Safety and/or Government Regulation: ☐ Yes ☑ No
Purchase Order No.: N / A
Weight (kg): 0.0077
Checking Aid Number: N / A
Checking Aid Engineering Change Level: N / A
Dated: N / A

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity / 588115092
Supplier Name & Supplier/Vendor Code

Carretera Int. Km. 1969 Guadalajara-Nogales Km. 2
Street Address

Empalme	Sonora	85340	México
City	Region	Postal Code	Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics
Customer Name/Division

Various
Buyer/Buyer Code

Various
Application

MATERIALS REPORTING

Reporting of all materials, not just Substances of Concern, may be required by certain OEMs or other customers.
Has customer-required Substances of Concern information been reported? ☑ Yes ☐ No
Submitted by IMDS or other customer format: 129457925 / 5

Are polymeric parts identified with appropriate ISO marking codes? ☑ Yes ☐ No ☐ N/A

REASON FOR SUBMISSION

- ☐ Initial submission
- ☐ Engineering Change(s)
- ☑ Tooling: Transfer, Replacement, Refurbishment, or additional
- ☐ Correction of Discrepancy
- ☐ Tooling Inactive >than 1 year
- ☐ Change to Optional Construction or Material
- ☐ Sub-Supplier or Material Source Change
- ☐ Change in Part Processing
- ☐ Parts produced at Additional Location
- ☐ Other - please specify

REQUESTED SUBMISSION LEVEL (Check one)

- ☐ Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- ☐ Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- ☐ Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- ☑ Level 4 - Warrant and other requirements as defined by customer.
- ☐ Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.

SUBMISSION RESULTS

The results for ☑ dimensional measurements ☑ material and functional tests ☐ appearance criteria ☐ statistical process package
These results meet all design record requirements: ☑ YES ☐ NO (If NO""C-Explanation Required)
Mold / Cavity / Production Process: Assembly Process

DECLARATION

I affirm that the samples represented by this warrant are representative or our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm the these samples were produced at a production rate of TE Property /24 hours.
I also certify that the documented evidence of such compliance is on file and available for review. I have noted any deviation from the declaration below.

EXPLANATION/COMMENTS: PCN P-18-016097 Rate is TE Property.

Is each Customer Tool properly tagged and numbered ☐ Yes ☐ No ☑ N/A

Organization Authorized Signature: Julia Avilés
Date: 24-Apr-2019

Print Name: Julia Avilés
Phone No.: +52 (662) 500 36 80
Fax No.: N/A

Title: PPAP Technician
E-mail: julia.avilez@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part warrant Disposition: ☐ Approved ☐ Rejected ☐ Other

Customer Signature
Date

Print Name
Customer Tracking Number (optional)

Section 18a

Bulk Material Requirements

Not Applicable