

Product Change Notification

PCN19-22 – D*MA Contacts - Nickel Under-Layer

C&K

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1. Purpose

C&K components, as design and manufacturing company for high reliability connectors, is constantly looking to improve the manufacturing means and processes in order to continue serving its customers with the highest performance level.

As part of this continuous improvement policy, C&K Components has engaged a program around D*MA Contacts series. This program consists of standardize under-layer plating material.

2. Overview

2.1 Change definition

Change is applied on the D*MA signal contacts under-layer material.

The description of the standardization is as follow:

- Signal contacts under-layer plating material change from Copper to Nickel
- Material base and finish plating remain the same

Signal Contact	Old Design	New Design
Material base	Copper alloy	Copper alloy
Under-layer plating	Copper	Nickel
Finish plating	Gold (1.27µm min)	Gold (1.27mm min)

2.2 Reason for Change

Streamlining of manufacturing process.

3. Impact of Change and Qualification

3.1 Impact of Change

No impact.

These evolutions do not change the performances and integration of connectors and contacts and therefore, the contents of D-SUB connectors and contacts specifications remain applicable.

3.2 Qualification

Qualification submitted and validated by CNES. ESCC qualification approved. ESA QPL updated.

Remark: Under-layer Cu and Ni material choice already taken into account on ESCC detail specifications N° 3401/005 and 3401/021.

<p>4.4.3 <u>Contacts</u> The contact body shall be made of copper alloy with an underplate of 1µm minimum of non-magnetic nickel or copper to MIL-C-14450, gold plated with 1.27µm minimum of gold, Type 2 Grade C of MIL-G-45204.</p> <p>The female contact spring element shall be made of copper alloy with an underplate of 1µm minimum of nickel or copper to MIL-C-14450, gold plated with 1.27µm minimum of gold, Type 2 Grade C of MIL-G-45204.</p>

4. Part affected

- Contacts

D*MA Contacts - ESCC 3401/005 Certified	
C&K Part-Number	ESA/ESCC Designation
C330-8996-101H	340100501B
C330-8997-101H	340100503B
C330-8995-101H	340100505B
C330-8998-101H	340100507B
C031-8996-101H	340100502B
C031-8997-101H	340100504B
C031-8995-101H	340100506B
C031-8998-101H	340100508B

D*MA Contacts - Engineering Model	
D*MA Contacts	
C&K Part-Number	Designation
C330-8996-101D	330-8996-101-FR022
C330-8997-101D	330-8997-101-FR022
C330-8995-101D	330-8995-101-FR022
C330-8998-101D	330-8998-101-FR022
C031-8996-101D	031-8996-101-FR022
C031-8997-101D	031-8997-101-FR022
C031-8995-101D	031-8995-101-FR022
C031-8998-101D	031-8998-101-FR022

D*MA Savers Contacts - ESCC 3401/021 Certified	
C&K Part-Number	ESA/ESCC Designation
C031-8991-101H	340102101B
C031-8992-101H	340102102B

D*MA Savers Contacts - Engineering Model	
C&K Part-Number	Designation
C031-8991-101D	031-8991-101-FR022
C031-8992-101D	031-8992-101-FR022

- Connectors

D*MA Connectors - ESCC 3401/002 Certified	
Part Number	Description ESA/ESCC
C115370-5000	340100201B DEMA9PNMB
C115370-5001	340100201B DEMA9SNMB
C115370-5002	340100201B DAMA15PNMB
C115370-5003	340100201B DAMA15SNMB
C115370-5004	340100201B DBMA25PNMB
C115370-5005	340100201B DBMA25SNMB
C115370-5006	340100201B DCMA37PNMB
C115370-5007	340100201B DCMA37SNMB
C115370-5008	340100201B DDMA50PNMB
C115370-5009	340100201B DDMA50SNMB
C115368-5020	340100202B DEMA15PNMB
C115368-5021	340100202B DEMA15SNMB
C115368-5022	340100202B DAMA26PNMB
C115368-5023	340100202B DAMA26SNMB
C115368-5024	340100202B DBMA44PNMB
C115368-5025	340100202B DBMA44SNMB
C115368-5026	340100202B DCMA62PNMB
C115368-5027	340100202B DCMA62SNMB
C115368-5028	340100202B DDMA78PNMB
C115368-5029	340100202B DDMA78SNMB
C115368-5090	340100202B DFMA104PNMB-A174
C115368-5091	340100202B DFMA104SNMB-A174
C115368-5080	340100202B DFMA104PNMB-FR172
C115368-5081	340100202B DFMA104SNMB-FR172
C115370-5020	340100201B DEMAY9PNMB
C115370-5021	340100201B DEMAY9SNMB
C115370-5022	340100201B DAMAY15PNMB
C115370-5023	340100201B DAMAY15SNMB
C115370-5024	340100201B DBMAY25PNMB
C115370-5025	340100201B DBMAY25SNMB
C115370-5026	340100201B DCMAY37PNMB
C115370-5027	340100201B DCMAY37SNMB
C115370-5028	340100201B DDMAY50PNMB
C115370-5029	340100201B DDMAY50SNMB
C115368-5040	340100202B DEMAY15PNMB
C115368-5041	340100202B DEMAY15SNMB
C115368-5042	340100202B DAMAY26PNMB
C115368-5043	340100202B DAMAY26SNMB
C115368-5044	340100202B DBMAY44PNMB
C115368-5045	340100202B DBMAY44SNMB
C115368-5046	340100202B DCMAY62PNMB
C115368-5047	340100202B DCMAY62SNMB
C115368-5048	340100202B DDMAY78PNMB
C115368-5049	340100202B DDMAY78SNMB
C115368-5094	340100202B DFMAY104PNMB-A174
C115368-5095	340100202B DFMAY104SNMB-A174
C115368-5084	340100202B DFMAY104PNMB-FR172
C115368-5085	340100202B DFMAY104SNMB-FR172
C115370-5040	340100201B DEMA9PNMB
C115370-5041	340100201B DEMA9SNMB
C115370-5042	340100201B DAMAE15PNMB
C115370-5043	340100201B DAMAE15SNMB
C115370-5044	340100201B DBMAE25PNMB
C115370-5045	340100201B DBMAE25SNMB
C115370-5046	340100201B DCMAE37PNMB
C115370-5047	340100201B DCMAE37SNMB
C115370-5048	340100201B DDMAE50PNMB
C115370-5049	340100201B DDMAE50SNMB
C115368-5060	340100202B DEMA9SNMB
C115368-5061	340100202B DEMA9SNMB
C115368-5062	340100202B DAMAE26PNMB
C115368-5063	340100202B DAMAE26SNMB
C115368-5064	340100202B DBMAE44PNMB
C115368-5065	340100202B DBMAE44SNMB
C115368-5066	340100202B DCMAE62PNMB
C115368-5067	340100202B DCMAE62SNMB
C115368-5068	340100202B DDMAE78PNMB
C115368-5069	340100202B DDMAE78SNMB
C115368-6064	340100202B DFMAY104PNMB-A174
C115368-6065	340100202B DFMAY104SNMB-A174
C115368-6060	340100202B DFMAY104PNMB-FR172
C115368-6061	340100202B DFMAY104SNMB-FR172

D*MA Connectors – Engineering Model	
Part Number	Description
C115370-3200	DEMA9PNMB-FR022
C115370-3201	DEMA9SNMB-FR022
C115370-3202	DAMA15PNMB-FR022
C115370-3203	DAMA15SNMB-FR022
C115370-3204	DBMA25PNMB-FR022
C115370-3205	DBMA25SNMB-FR022
C115370-3206	DCMA37PNMB-FR022
C115370-3207	DCMA37SNMB-FR022
C115370-3208	DDMA50PNMB-FR022
C115370-3209	DDMA50SNMB-FR022
C115368-3200	DEMA15PNMB-FR022
C115368-3201	DEMA15SNMB-FR022
C115368-3202	DAMA26PNMB-FR022
C115368-3203	DAMA26SNMB-FR022
C115368-3204	DBMA44PNMB-FR022
C115368-3205	DBMA44SNMB-FR022
C115368-3206	DCMA62PNMB-FR022
C115368-3207	DCMA62SNMB-FR022
C115368-3208	DDMA78PNMB-FR022
C115368-3209	DDMA78SNMB-FR022
C115368-3290	DFMA104PNMB-A174-FR022
C115368-3291	DFMA104SNMB-A174-FR022
C115368-3280	DFMA104PMB-FR172-FR022
C115368-3281	DFMA104SMB-FR172-FR022
C115370-3220	DEMA9PNMB-FR022
C115370-3221	DEMA9SNMB-FR022
C115370-3222	DAMAY15PNMB-FR022
C115370-3223	DAMAY15SNMB-FR022
C115370-3224	DBMAY25PNMB-FR022
C115370-3225	DBMAY25SNMB-FR022
C115370-3226	DCMAY37PNMB-FR022
C115370-3227	DCMAY37SNMB-FR022
C115370-3228	DDMAY50PNMB-FR022
C115370-3229	DDMAY50SNMB-FR022
C115368-3220	DEMA9SNMB-FR022
C115368-3221	DEMA9SNMB-FR022
C115368-3222	DAMAY26PNMB-FR022
C115368-3223	DAMAY26SNMB-FR022
C115368-3224	DBMAY44PNMB-FR022
C115368-3225	DBMAY44SNMB-FR022
C115368-3226	DCMAY62PNMB-FR022
C115368-3227	DCMAY62SNMB-FR022
C115368-3228	DDMAY78PNMB-FR022
C115368-3229	DDMAY78SNMB-FR022
C115368-3294	DFMAY104PNMB-A174-FR022
C115368-3295	DFMAY104SNMB-A174-FR022
C115368-3284	DFMAY104PNMB-FR172-FR022
C115368-3285	DFMAY104SNMB-FR172-FR022
C115370-3240	DEMAE9PNMB-FR022
C115370-3241	DEMAE9SNMB-FR022
C115370-3242	DAMAE15PNMB-FR022
C115370-3243	DAMAE15SNMB-FR022
C115370-3244	DBMAE25PNMB-FR022
C115370-3245	DBMAE25SNMB-FR022
C115370-3246	DCMAE37PNMB-FR022
C115370-3247	DCMAE37SNMB-FR022
C115370-3248	DDMAE50PNMB-FR022
C115370-3249	DDMAE50SNMB-FR022
C115368-3240	DEMAE15PNMB-FR022
C115368-3241	DEMAE15SNMB-FR022
C115368-3242	DAMAE26PNMB-FR022
C115368-3243	DAMAE26SNMB-FR022
C115368-3244	DBMAE44PNMB-FR022
C115368-3245	DBMAE44SNMB-FR022
C115368-3246	DCMAE62PNMB-FR022
C115368-3247	DCMAE62SNMB-FR022
C115368-3248	DDMAE78PNMB-FR022
C115368-3249	DDMAE78SNMB-FR022
C115368-3454	DFMAE104PNMB-A174-FR022
C115368-3455	DFMAE104SNMB-A174-FR022
C115368-3450	DFMAE104PNMB-FR172-FR022
C115368-3451	DFMAE104SNMB-FR172-FR022

D*MA Savers Connectors - ESCC 3401/020 Certified	
Part Number	Description ESA/ESCC
C115370-6000	340102001B DEBMA9PSNMB
C115370-6001	340102001B DABMA15PSNMB
C115370-6002	340102001B DBBMA25PSNMB
C115370-6003	340102001B DCBMA37PSNMB
C115370-6004	340102001B DDBMA50PSNMB
C115368-6010	340102002B DEBMA15PSNMB
C115368-6011	340102002B DABMA26PSNMB
C115368-6012	340102002B DBBMA44PSNMB
C115368-6013	340102002B DCBMA62PSNMB
C115368-6014	340102002B DDBMA78PSNMB
C115368-6020	340102002B DFBMA104PSNMB-FR172
C115368-6022	340102002B DFBMA104PSNMB-A174
C115368-6061	340100202B DFMAE104SNMB-FR172

D*MA Savers Connectors - Engineering Model	
Part Number	Description ESA/ESCC
C115370-4045	DEBMA9PSNMB-FR022
C115370-4046	DABMA15PSNMB-FR022
C115370-4047	DBBMA25PSNMB-FR022
C115370-4048	DCBMA37PSNMB-FR022
C115370-4049	DDBMA50PSNMB-FR022
C115368-4045	DEBMA15PSNMB-FR022
C115368-4046	DABMA26PSNMB-FR022
C115368-4047	DBBMA44PSNMB-FR022
C115368-4048	DCBMA62PSNMB-FR022
C115368-4049	DDBMA78PSNMB-FR022
C115368-4055	DFBMA104PSNMB-FR172-FR022
C115368-4057	DFBMA104PSNMB-A174-FR022

- Custom Design Products (CDRI- Custom Design Request Information).

D*MA Savers Connectors - Engineering Model	
Part Number	Description ESA/ESCC
C115366-2175C	DEMA-115366-2175-CDRI-07005
C115366-2177C	DAMA-115366-2177-CDRI-07005
C115366-2179C	DBMA-115366-2179-CDRI-07005
C115366-2181C	DCMA-115366-2181-CDRI-07005
C115366-2183C	DDMA-115366-2183-CDRI-07005
C115366-2176C	DEMA-115366-2176-CDRI-07005
C115366-2178C	DAMA-115366-2178-CDRI-07005
C115366-2180C	DBMA-115366-2180-CDRI-07005
C115366-2182C	DCMA-115366-2182-CDRI-07005
C115366-2184C	DDMA-115366-2184-CDRI-07005
C115366-2527C	DEMA-115366-2527-CDRI-07005
C115366-2529C	DAMA-115366-2529-CDRI-07005
C115366-2531C	DBMA-115366-2531-CDRI-07005
C115366-2533C	DCMA-115366-2533-CDRI-07005
C115366-2535C	DDMA-115366-2535-CDRI-07005
C115366-2528C	DEMA-115366-2528-CDRI-07005
C115366-2530C	DAMA-115366-2530-CDRI-07005
C115366-2532C	DBMA-115366-2532-CDRI-07005
C115366-2534C	DCMA-115366-2534-CDRI-07005
C115366-2536C	DDMA-115366-2536-CDRI-07005
C031-8996-101JH	340100502B-CDRI-18001
C031-8998-101JH	340100508B-CDRI-18001
C031-8997-101JH	340100504B-CDRI-18001
C031-8995-101JH	340100506B-CDRI-18001

5. Date of application

- Orders delivered before March 31th 2020 will be produced with Copper under-layer.
- Orders delivered between April 1st 2020 and June 30th 2020 can be produced with old or new under-layer plating (end of stocks management).
- Orders delivered after July 1st 2020 will be produced with Nickel under-layer.

Remark:

- No mix of material for each order line.
- During transition period (April 1th, 2020 to June 30th, 2020), for each complete order, some lines can be delivered with old Cu under-layer plating and other lines with new Ni under-layer plating.
- Once a reference is changed to Nickel under-layer, no delivery will be done with Copper under-layer.

6. Conditions of application

Ordering, Pricing and stock handling policy:

- Ordering: P/N designation remains unchanged.
- Pricing: Any pricing and other sales conditions remain valid.
- Stock handling: No return or scrap for obsolescence will be accepted for any reason.

7. Support

For any question, please contact your C&K sales representative.