Amphenol

Amphenol-Tuchel Electronics GmbH

Smart Card Connectors
Series C700

www.smart-card-connector.info

# Our project competence for your innovative solutions

Amphenol's development strategy is to partner with customers early in their development process. We bring a high level expertise to programs in an effort to achieve innovative designs that meet current and future needs. Important elements are especially:

Sample shop and pre-series production capability

➜ Stamped bended and milled parts

➜ Injection molding and stamping tools

Engineering tools

➜ Structural analysis with FEM

➜ Dynamic FEM Analysis

➜ 3D process simulation of injection molding

➜ Network of service provider

➜ Rapid Prototyping

➜ Simultanous Engineering of Product Design and Development of Processes
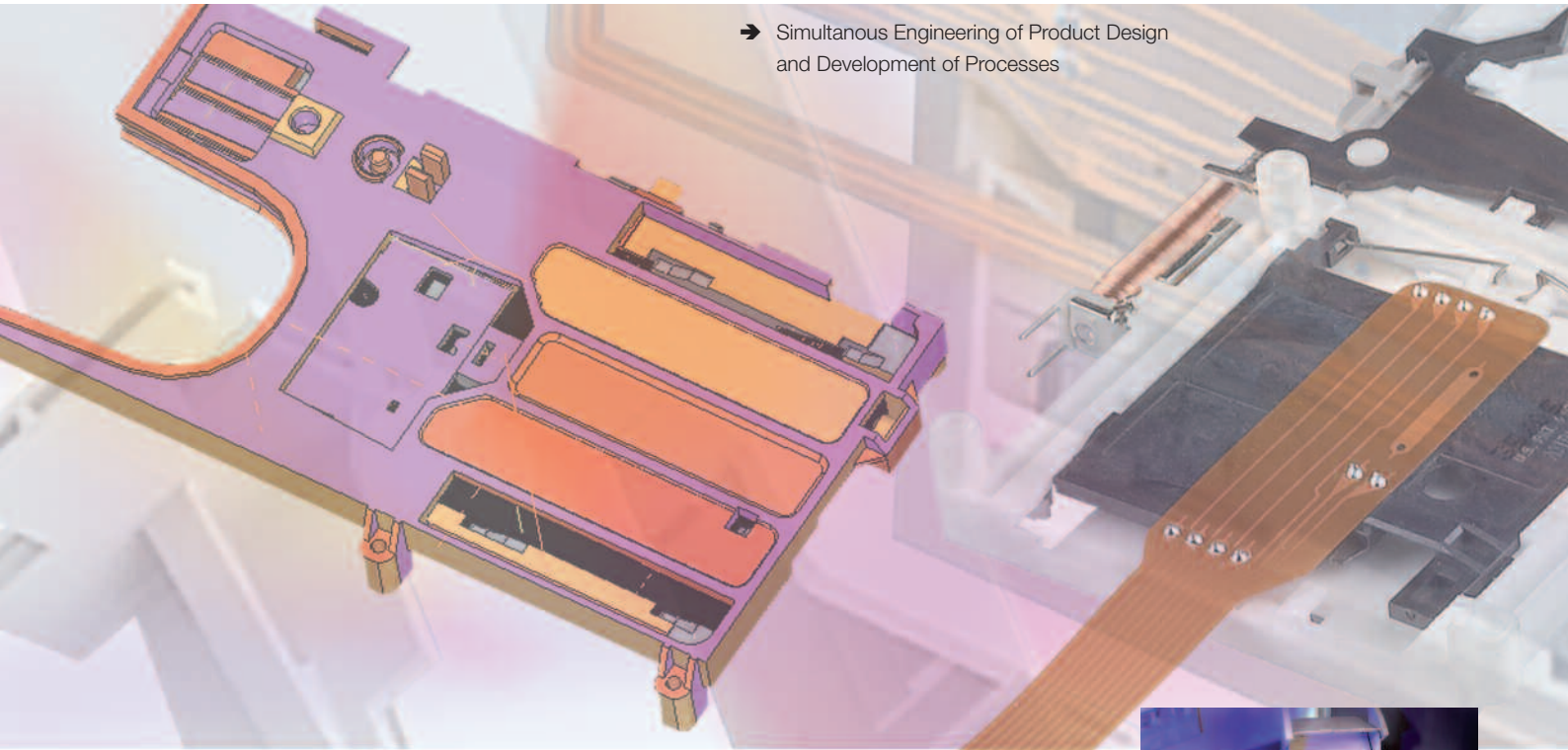
Internal Research & Testing Laboratory

Mechanical endurance & forces

➜ mechanical shock testing

➜ contact force characteristics

➜ vibration testing (sine or random)

Materials & Surfaces
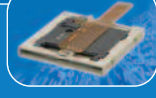
➜ coating thickness measuring

➜ material hardness

➜ visual inspection by microscope

➜ microsections

Product Assessmentaces

➜ operating life testing

➜ electrical parameters

➜ Environmental testing, mating cycles

Contents

Free Assembly

PCB Assembly

Global Partnership

The Company

Amphenol-Tuchel Electronics GmbH is a global company and leading manufacturer of electrical connector solutions.

The superior quality of our product line is a result of specialized engineering and techniques in conjunction with leading edge production methods.

Our worldwide production and sales channels provide local competency in a global market-place. Amphenol has continually upped the standards in electrical connector technology with our many inventions and patents.

Our Smart Card solutions are used in applications such as payment terminals, Set Top Boxes, vending machines, access control units and also in the automotive market.
Global Partnership

Quality

At Amphenol-Tuchel Electronics, quality is one of the first considerations during the initial development steps.

For more than 20 years our interdisciplinary project teams have guaranteed robust and reliable Smart Card solutions.

Amphenol-Tuchel is certified in accordance with ISO 9001, QS 9000, VDA 6.1 and TS 16949, which means that each step in the process chain ensures a maximum quality level. Our environmental awareness is oriented

Technological Leadership

Amphenol-Tuchel Electronics has obtained its claims to technical advances and technological leadership from various technical and technological advantages.

These include high-performance precision pressing technology, modern injection-molding technology and a manufacturing and inspection technology which ensures that all processes operate reliably.

Production flexibility is guaranteed by the use of either fully automatic production equipment, semi-automatic production lines or manual manufacture, depending on the requirements.

General Information
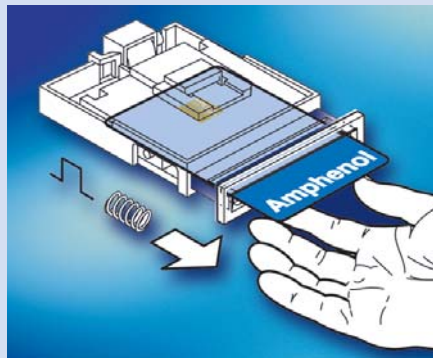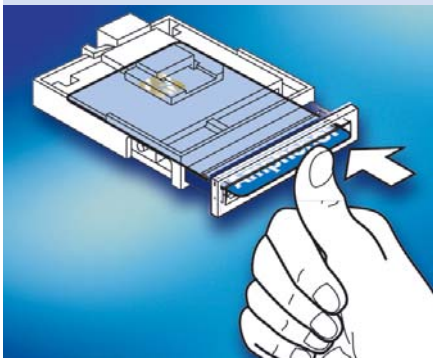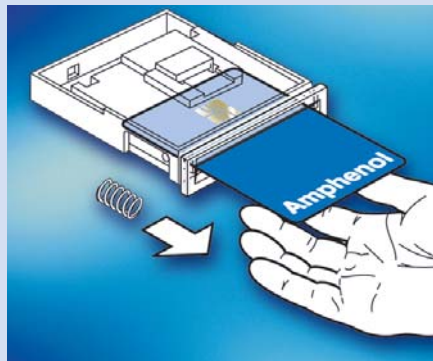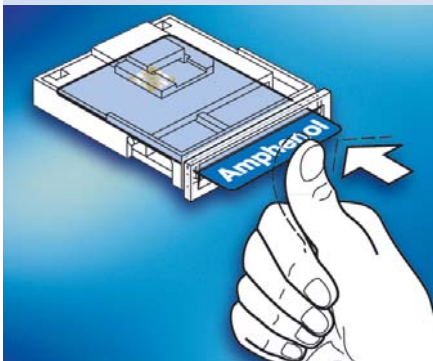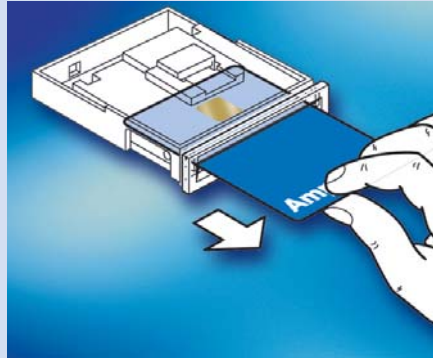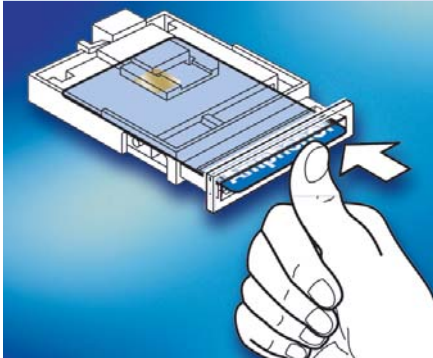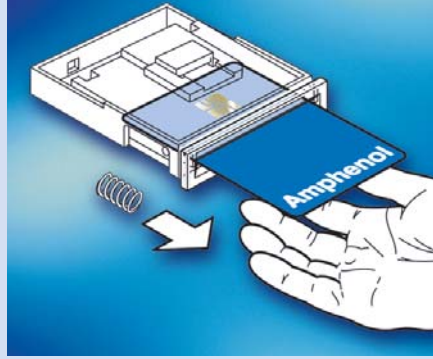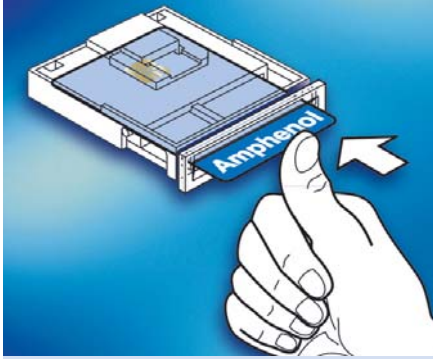
Push-Only

The card is inserted manually and held in the active position by hand. The card is ejected immediately after the user releases it. The Push-Only is ideally suited for applications with short transaction cycles, i.e. door access control.

Push-Pull

The card is inserted manually and held in the active position by a card brake. After completion of the transaction, the card is simply pulled out of the Smart Card Connector.

This is the most common manual cardhandling system.

Push-Push

The card is inserted manually and held in the active position by the Smart Card Connector. When pushed again the card is returned to the user (principle of a ballpointpen).

PUSHMATIC®

This semi-automatic system combines a manual card insertion with an automatic card ejection. The card is manually pushed into the Smart Card Connector until it is flush (or nearly flush) with the bezel.
Upon completion of the transaction, software triggers a solenoid and the card is ejected back to the user.

Landing Contacts

With this contact method a moveable contact set will connect with the pads of the chip card upon insertion of the card. The card plastic surface is not scratched and highmating cycles can be achieved.
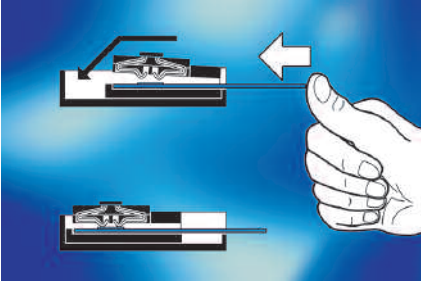
Wiping Contacts

The contact set is fixed. When the card is inserted, it wipes over the data contacts until they arrive at the card pads. Depending upon the card surface, wiping traces which do not influence the card function can occur after some insertion cycles.
The advantage of wiping contacts is that they clean the contact point with every mating cycle.
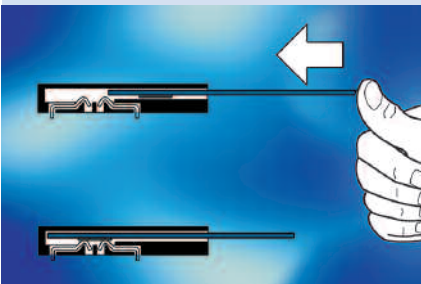
Landing Card

This method of contacting is based on a fixed contact set. The chip card is lowered during its insertion.
The contact areas of the chip card land smoothly on the reading contacts which results in the possibility of a high number of mating cycles. In addition this system makes sure that with each insertion the contact surfaces are cleaned.
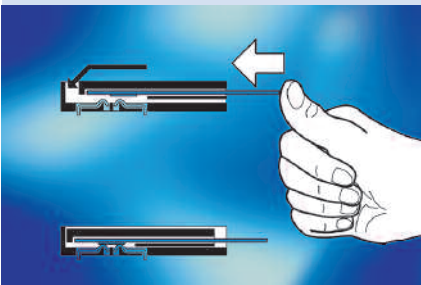
SIMLOCK®

In cases where chip cards with the dimensions of a full size ISO 7816 are too large, the SIMLOCK® comes into use. With its latching cover for the insertion of the smaller SIM card it offers a safe contact interface even in mobile usage.
Due to the locking system the user does not have to consider tolerances or card guiding.
The design and packaging of the Amphenol SIMLOCK® allows manual and automatic pick and placement prior to surface mount soldering.
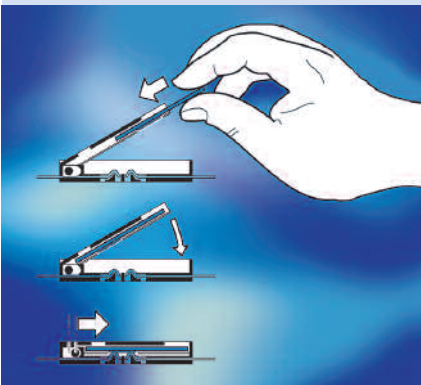
SIMBLOCK®

These Smart Card Connectors, due to their minimal space requirement and low height are the ideal components for many space restricted applications, from handsets to the electronic purse. The connector is suitable for standard chip cards per ISO 7816 as well as for plug-in SIM cards.

The SMT terminals and packaging for automatic handling allow the use of pick and place robots and modern surface solder technologies. Positioning and support of the chip card has to be ensured by the user.
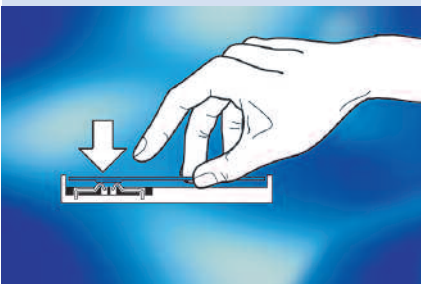
C703A Hybrid

C703A Hybrid Push-Pull
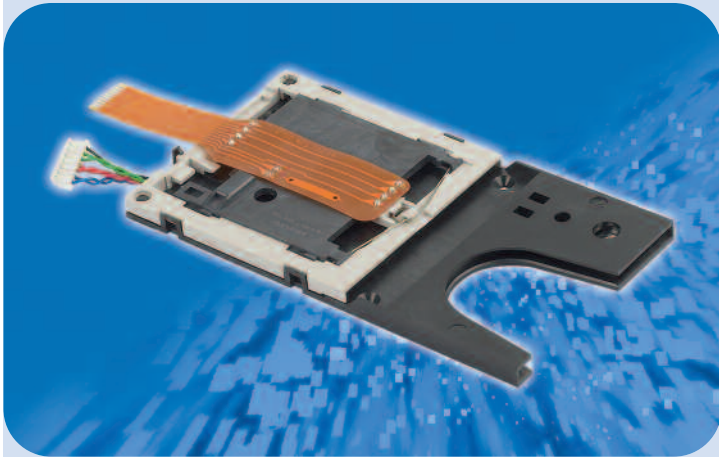
PCI PED protection for both chip and magnetic head available

- *500.000 mating cycles for both chip and magnetic stripe*
- *landing, self-cleaning contacts*
- *gimballed magnetic head*
- *card presence switch*
- *compact design for space critical applications*
- *card guiding for secure card reading*
- *EMV compliant*

PART NO.:

C703 10M008 600 5	standard magnetic head, with card break
C703 10M008 601 5	standard magnetic head, no card break
C703 10M008 609 5	superflat magnetic head, no card break

C703A Hybrid PUSHMATIC®
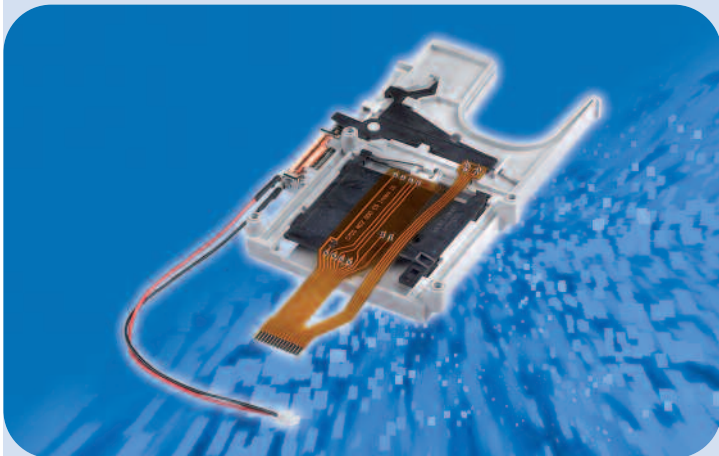
PCI PED protection for both chip and magnetic head available

- *500.000 mating cycles for both chip and magnetic stripe*
- *landing, self-cleaning contacts*
- *gimballed magnetic head*
- *card presence and locking switch*
- *card locking in active position*
- *compact design for space critical applications*
- *card guiding for secure card reading*
- *EMV compliant*

PART NO.:

C703 10M008 607 5	12V solenoid

Amphenol

C703A Hybrid EMV

- *super flat hybrid reader*
- *EMV Level 1 compliant*

PART NO.:

C703 10M008 606 5   EMV Level 1 Modul

customized software interfaces / PCB solutions available upon request
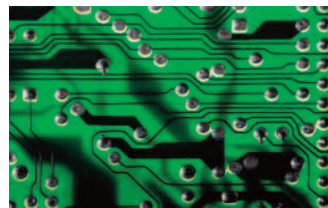
C703A Hybrid Swipe

- *500.000 mating cycles for both chip and magnetic stripe*
- *landing, self-cleaning contacts*
- *several magnetic heads available*
- *card presence switch*
- *approved card handling for magnetic stripe reading*
- *EMV compliant*

PART NO.:

C703 10M008 610 5   standard magnetic head

PCI PED protection for both chip and magnetic head available

C702A Vario

C702A Vario

- *500.000 mating cycles*
- *landing, self-cleaning contacts*
- *card presence switch*
- *accessories available*

PART NO.:

C702 10M008 015 2	Push-Push
C702 10M008 018 2	Push-Only
C702 10M008 514 2	Push-Pull

C702A PUSHMATIC®

- *300.000 mating cycles*
- *landing, self-cleaning contacts*
- *card presence switch*
- *accessories available*

PART NO.:

C702 10M008 701 2	5V,	flat cable termination
C702 10M008 700 2	12V,	flat cable termination
C702 10M008 702 2	24V,	flat cable termination
C702 10M008 747 2	5V,	flexprint termination
C702 10M008 723 2	12V,	flexprint termination
C702 10M008 772 2	24V,	flexprint termination
C702 10M008 732 2	5V,	flat cable, locking detector
C702 10M008 716 2	12V,	flat cable, locking detector
C702 10M008 727 2	24V,	flat cable, locking detector

Amphenol

C702A Shutter
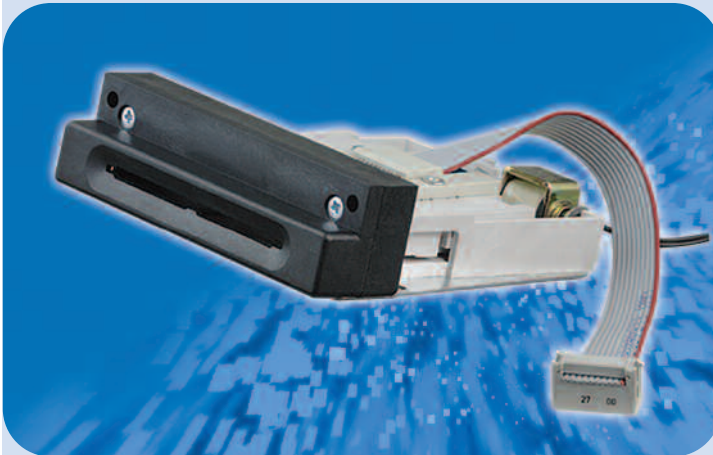
- *200.000 mating cycles*
- *landing, self-cleaning contacts*
- *card presence switch*
- *mounting plate*

PART NO.:

C702 20M008 701 2	5V
C702 20M008 700 2	12V
C702 20M008 702 2	24V

C702A Accessories

- *customized bezels on request*

PART NO.:

C702 N13 030 E2 (for PUSHMATIC)	metal bezel, silver coloured
C702 N13 031 E2 (for PUSHMATIC)	metal bezel, black coloured
C702 N14 030 E2 (for PUSHMATIC)	metal bezel with coin spacer, silver coloured
C702 N15 100 G2	mounting plate
C702 N11 141 E2	plastic bezel, black
C702 N14 000 G2	Shutter

C702B PUSHMATIC® II

C702B PUSHMATIC® II without card locking
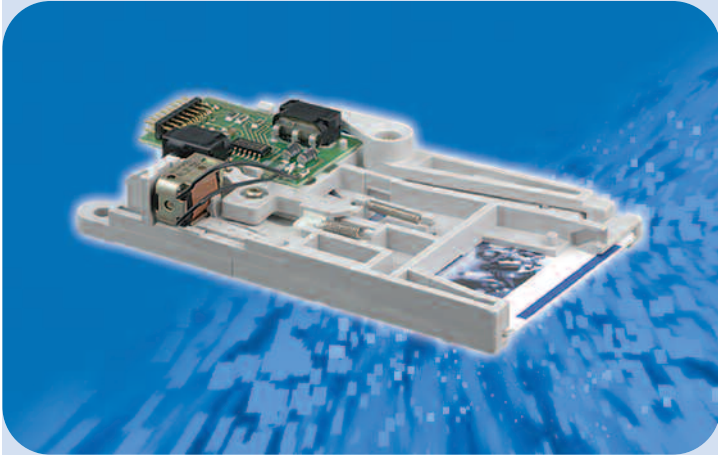
- *robust design, suitable for vending machines*
- *card accessible during power failure*
- *card presence switch, also can be used for system wake up*
- *card end position switch acc. to EMV acts as card locking sensor*
- *additional sensor for card active position detects abnormal termination of the transaction*
- *self retracting and self cleaning data contacts provide protection against vandalism*
- *housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards*
- *16 way interface header allows for custom cabling*
- *300.000 mating cycles*

PART NO.:

C702 10M008 906 2   5V   solenoid voltage
C702 10M008 904 2   12V   solenoid voltage
C702 10M008 909 2   24V   solenoid voltage

C702B PUSHMATIC® II with card locking
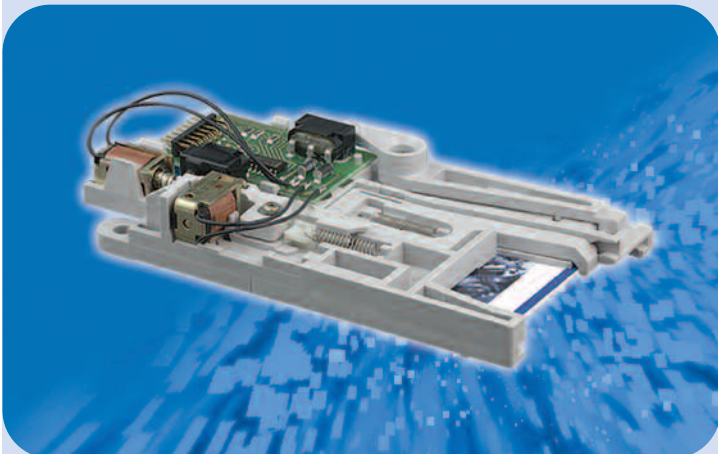
- *card locked in active position*
- *robust design, suitable for vending machines*
- *card accessible during power failure*
- *card end position switch acc. to EMV acts as card locking sensor*
- *additional sensor for card active position detects abnormal termination of the transaction*
- *self retracting and self cleaning data contacts provide protection against vandalism*
- *housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards*
- *16 way interface header allows for custom cabling*
- *300.000 mating cycles*
- *as an option feature to release card in locked position (SCR)*

PART NO.:

C702 10M008 907 2   5V   solenoid voltage
C702 10M008 905 2   12V   solenoid voltage
C702 10M008 910 2   24V   solenoid voltage

C702B Accessories
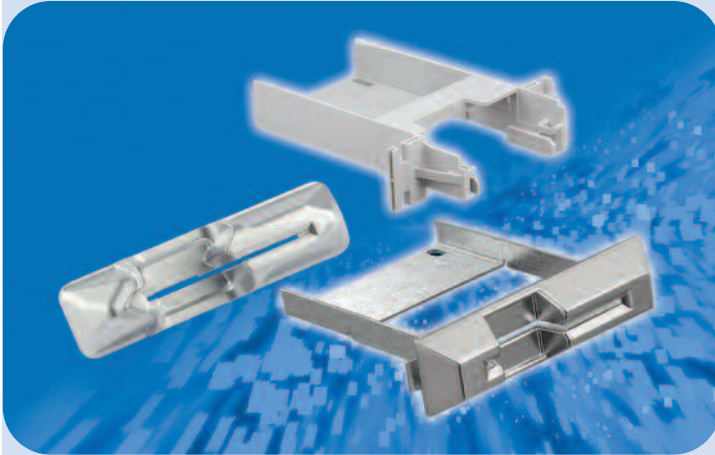
• *Amphenol's original guarantees well function*

PART NO.:

C702 G46 100 G2	metal bezel with "coin spacer" silver coloured
C702 G46 201 G2	metal bezel with "coin spacer" and rain refusing, silver coloured
C702 G51 112 E2	mounting plate, tin plated
C702 N25 040 E2	plastic adapter for common standard bezels

C702D Flex
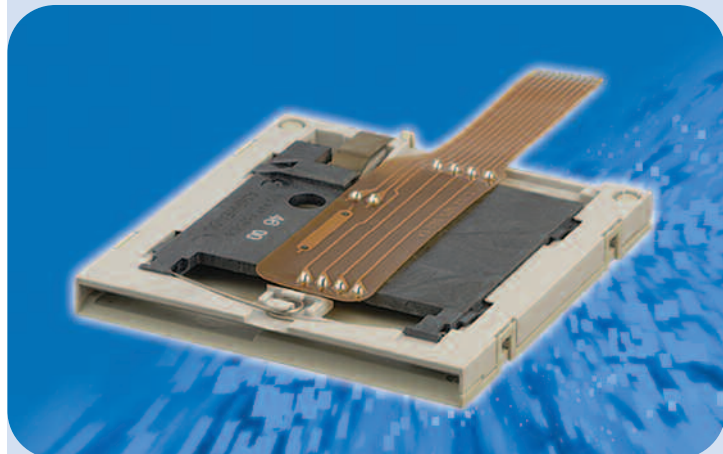
Amphenol

C702D Flex Basis

- *miniaturized style, ideally suited for mobile devices like POS terminals*
- *EMV compatible*
- *300.000 mating cycles*
- *with flexprint termination to save boardspace*

PART NO.:

C702 10M008 065 4   EMV compliant

C702D Flex Snap in

- *Snap in mounting, chip side up card insertion*
- *debris slot to provide egress of coins, paper*
- *miniaturized style, ideally suited for mobile devices like POS terminals*
- *EMV compatible*
- *300.000 mating cycles*
- *with flexprint termination and as an option dip solder version*

PART NO.:

C702 10M008 063 4   Dip Solder, EMV compliant
C702 10M008 066 4   Flexprint, EMV compliant

C702C PUSHMATIC® Slim

C702C PUSHMATIC® Slim
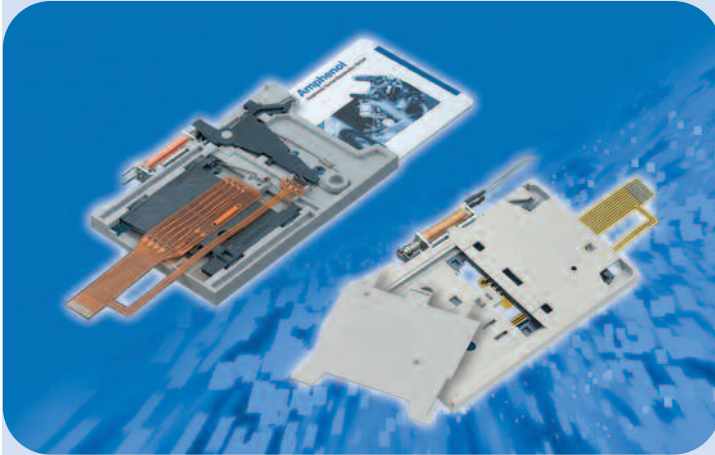
- *300.000 mating cycles*
- *landing, self-cleaning contacts*
- *card locking in active position*
- *automatic card ejection after transaction*
- *manual unlocking after power failure possible*
- *card presence and locking switch*
- *EMV compliant*

PART NO.:

C702 10M008 901 4   5V
C702 10M008 902 4   12V
C702 20M008 903 4   24V

C702Y Landing EZ

C702Y Landing EZ
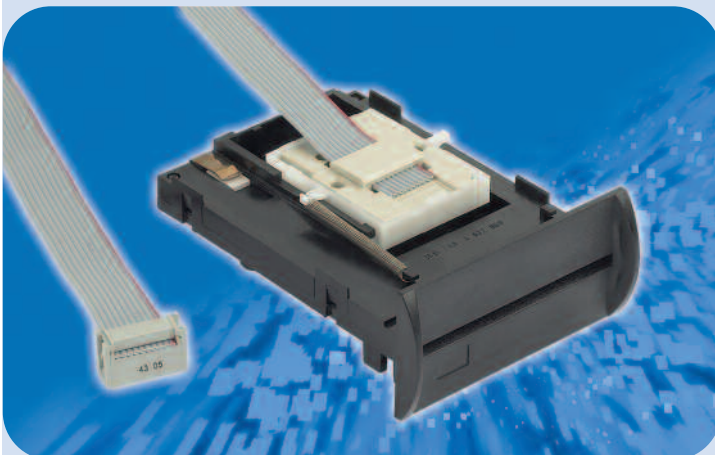
- *300.000 mating cycles*
- *landing, self-cleaning contacts*
- *card presence switch*
- *flat cable and flexprint termination*

PART NO.:

C702 10M008 071 3   integrated bezel,
                      flat cable termination

C702 10M008 009 3   bilateral mounting,
                      Flexprint termination

C702E Wiping

C702E Wiping XXS

- *self cleaning card present switch*
- *normally open or normally closed switch*
- *boardlocks for mechanical fixation*
- *special shape of contacts minimizes card scratching*
- *PCB mounting, dip solder pins*
- *dimensions 62x40x7.2 mm*
- *100.000 mating cycles*
- *EMV compliant*

PART NO.:

C702 10M008 230 40	XXS Standard, normally closed switch
C702 10M008 231 40	XXS Standard, normally open switch
C702 10M008 232 40	XXS 3mm stand-off, normally closed switch
C702 10M008 233 40	XXS 3mm stand-off, normally open switch
C702 10M008 234 40	XXS 5mm stand-off, normally closed switch
C702 10M008 235 40	XXS 5mm stand-off, normally open switch

C702E Wiping Dual Plane

- *Dual Plane version with 2 x 8 contacts for chip up & down card handling*
- *self cleaning card present switch*
- *normally closed switch*
- *boardlocks for mechanical fixation*
- *special shape of contacts minimizes card scratching*
- *PCB mounting, dip solder pins*
- *100.000 mating cycles*
- *EMV compliant design*
- *suitable for applications with shorter dwell time of the card*

PART NO.:

C702 10M008 214 40	Dual Plane

Amphenol

C702E Wiping Card Guide
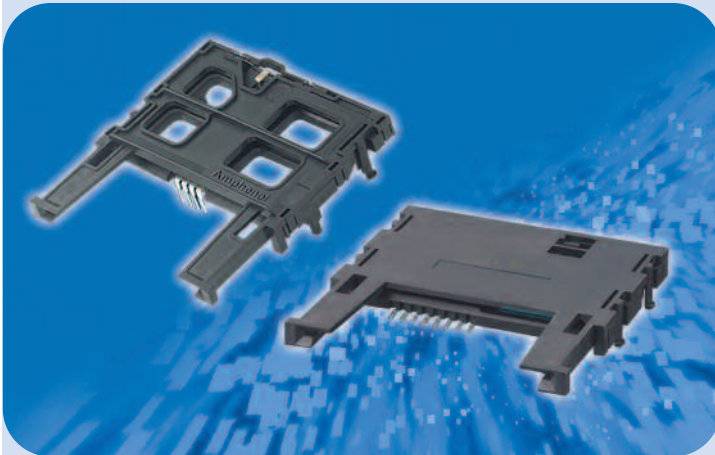
- *Smart Card connector with Card Guide*
- *self cleaning card present switch*
- *normally closed switch*
- *boardlocks for mechanical fixation*
- *special shape of contacts minimizes card scratching*
- *PCB mounting, dip solder or SMT*
- *100.000 mating cycles*

PART NO.:

C702 10M008 283 4   Card Guide 3mm stand-off, dip solder pin

C702 10M008 230 4   Card guide, SMT, 8 contacts ISO, infrared reflow 230°C, 30 s max.

C702E Wiping Panel Mount
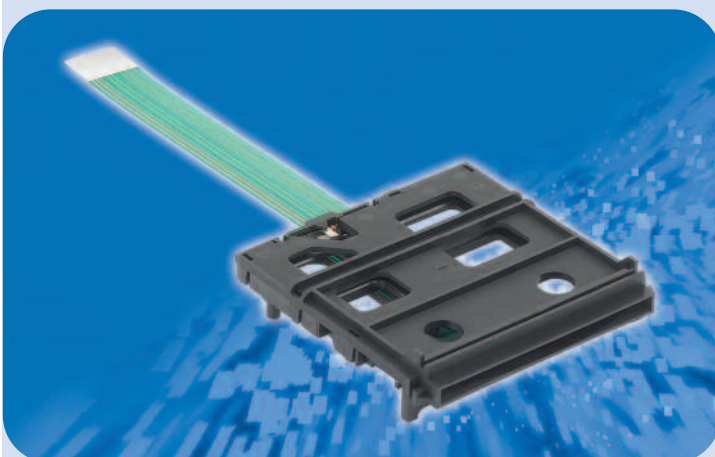
- *collar for snap in mounting in front panel*
- *self cleaning card present switch*
- *normally closed switch*
- *special shape of contacts minimizes card scratching*
- *connection to the PCB with Flexprint*
- *100.000 mating cycles*
- *EMV compliant*

PART NO.:

C702 10M008 240 40   Panel Mount

C702E Wiping

Amphenol

C702E PCB-Slimline

- *extremely compact dimensions (56 x 30 x 3 mm)*
- *metal cover for high mechanical stability (only one card in slot)*
- *protected switch*
- *for pick & place assembly*
- *reflow compliant*
- *100,000 mating cycles*

PART NO.:

C702 10M008 252 40   with position pins
C702 10M008 251 40   with flexprint

PCI PED protection available

C702F PCB Landing

Amphenol

C702F PCB Landing

- *500.000 mating cycles*
- *landing, self-cleaning contacts*
- *tap-proof design (no pins in front area)*
- *PCI card slot regulation compliant - only one card in slot*
- *protected card presence switch*
- *EMV compliant*

PART NO.:

C702 10M008 300 4 without PCI PED cover

PCI PED protection available

C703 Hybrid Adapter

- *hybrid adapter for PCB landing connector C702 10M008 300 4*
- *3 track magnetic head*
- *customized flexprint termination*

PART NO.:

C703 10M008 608 5   standard magnetic head

PCI PED protection for magnetic head available

C707A SIMLOCK®

C707A SIMLOCK® new generation

- *height: 2.5 mm*
- *packaging: tape & reel*
- *wide solder tails for overhead soldering as an option*
- *for SIM/SAM applications*
- *designer does not have to be concerned with housing tolerances and card guiding due to self contained system*
- *locking detector and card detection switch as an option*

PART NO.:

C707 10M006 049 2	**w/o** locking detector and card presence switch, **2** positioning pins
C707 10M006 500 2	**w/o** locking detector and card presence switch, **w/o** positioning pins
C707 10M006 523 2	**with** locking detector and card presence switch, **2** positioning pins
C707 10M006 522 2	**with** locking detector and card presence switch, **w/o** positioning pins
C707 10M006 530 2	wide solder tails, **w/o** locking detector and card presence switch, **w/o** positioning pins
C707 10M006 537 2	wide solder tails, **with** locking detector and card presence switch, **w/o** positioning pins
C707 10M006 542 2	alternative footprint, **w/o** locking detector and card presence switch, **w/o** positioning pins

C707A SIMLOCK® shielded

- *height: 2.5 mm*
- *packaging: tape & reel*
- *for SIM/SAM applications*
- *designer does not have to be concerned with housing tolerances and card guiding due to self contained system*
- *locking detector and card detection switch*
- *full metallized cover with 2 point grounding*

PART NO.:

C707 10M006 535 2	without positioning pins

Amphenol

C707A SIMLOCK® with Drawer

- *packaging: contact carrier in tape & reel, drawer in pallet*
- *for SIM/SAM applications*
- *designer does not have to be concerned with housing tolerances and card guiding due to self contained system*
- *card detection switch*

PART NO.:

C707 10M006 528 2	Contact Carrier
C707 10M006 529 2	Drawer (grey)

C707A SIMLOCK® basic

- *height: 3.0 mm*
- *for SIM/SAM applications*
- *designer does not have to be concerned with housing tolerances and card guiding due to self contained system*
- *locking detector as an option*

PART NO.:

|	
C707 10M006 000 2	**with** locking detector, **4** positioning pins, packaging: tray
C707 10M006 001 2	**without** locking detector, **4** positioning pins, packaging: tray
C707 10M006 021 2	**without** locking detector, **2** positioning pins, tape & reel
C707 10M006 503 2	**with** locking detector, **2** positioning pins, tape & reel, without lid
C707 10M006 027 2	LID for SIMLOCK®, **with** locking detector

C707B SIMBLOCK®

Amphenol

C707B SIMBLOCK® 6pin
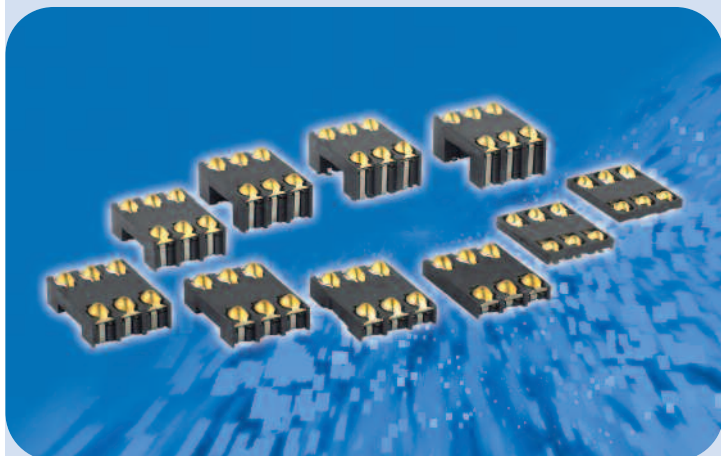
- *spoon contacts for multidirectional card insertion*
- *packaging: tape & reel, quantity on the reel depending on the height*
- *other heights upon request*
- *for full size chip card and SIM/SAM applications*

PART NO.:

C707 10M006 147 2	height: 1.05 mm
C707 10M006 148 2	height: 1.20 mm
C707 10M006 149 2	height: 1.30 mm
C707 10M006 151 2	height: 1.50 mm
C707 10M006 131 2	height: 1.80 mm
C707 10M006 119 2	height: 2.00 mm
C707 10M006 110 2	height: 2.20 mm
C707 10M006 121 2	height: 2.60 mm
C707 10M006 122 2	height: 2.80 mm
C707 10M006 124 2	height: 3.20 mm
C707 10M006 126 2	height: 3.70 mm
C707 10M006 109 2	height: 4.00 mm
C707 10M006 117 2	height: 4.60 mm
C707 10M006 130 2	height: 5.00 mm
C707 10M006 189 2	height: 5.70 mm

C707B SIMBLOCK® 8pin

- *for chipcards according to ISO 7816 (full size cards)*
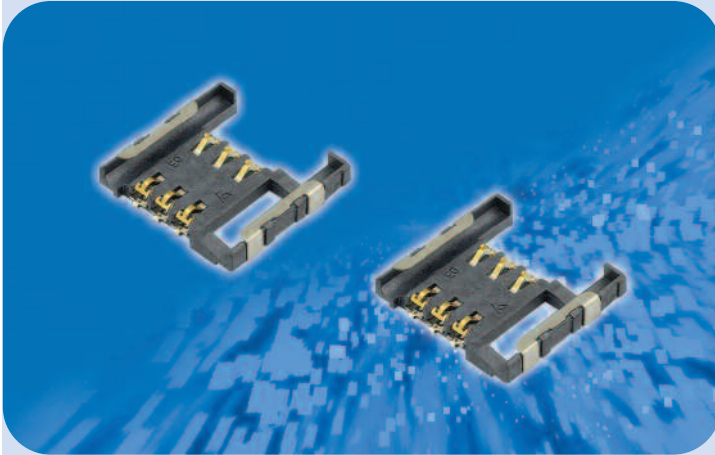
PART NO.:

C707 10M006 052 2	height: 2.0 mm, tray packaging
C707 10M006 065 2	height: 2.0 mm, NO switch, tray packaging
C707 10M006 177 2	height: 1.2 mm, tape & reel packaging, spoon contacts for multidirectional card insertion, height: 1.05 – 1.8 mm upon request

C707D WINGBLOCK

Amphenol

C707D WINGBLOCK 6pin

- *packaging: tape & reel*
- *for SIM/SAM applications*
- *metal wings as card guidance*

PART NO.:

C707 10M006 097 2	height: 2.8 mm, with card stop
C707 10M006 115 2	height: 2.7 mm, with card stop

C707D BRIDGEBLOCK 6pin

- *packaging: tape & reel*
- *for SIM/SAM applications*
- *metal bridge as card guidance*
- *other heights upon request*

PART NO.:

C707 10M006 116 2	height: 1.6 mm, with card stop, **with** card presence switch, **4** positioning pins, shielded
C707 10M006 136 2	height: 2.0 mm, with card stop
C707 10M006 137 2	height: 2.2 mm, with card stop
C707 10M006 154 2	height: 2.0 mm, octagonal
C707 10M006 167 2	height: 2.8 mm, octagonal

International

Argentina
Amphenol Argentina
Av. Callao 930
2nd Floor Office B "Plaza"
C 1023 AAP Buenos Aires
Phone +54 / 11 / 48 15 68 86
Fax   +54 / 11 / 48 14 57 79

Australia
Amphenol Australia Ltd.
2 Fiveways Blvd
Keysborough
Victoria 31 73
Phone +61 / 3 / 87 96 / 88 88
Fax   +61 / 3 / 87 96 / 88 01

Belgium
Amphenol-Tuchel Belgium
Brusselbaan 524b
B 1600 Sint-Pieters-Leeuw
Phone +32 / 23 77 / 25 49
Fax   +32 / 23 77 / 53 03

Brasilia
Amphenol do Brasil Ltda.
Rua Diogo Moreira 132, 20th Floor
CEP 05423-010 Sao Paulo SP
Phone +55 / 11 / 38 15.10 03
Fax   +55 / 11 / 38 15.16 29

China
Amphenol-Tuchel Electronics GmbH
China Branch
210-1 Taishan Road
Changzhou 213 022
Phone +86 / 05 19 / 5 11 03 01
Fax   +86 / 05 19 / 5 11 02 99

France
Amphenol-Tuchel France
Bât. Le Newton C
7 Mail B. Thimonnier
77185 Lognes
Phone +33 / 164 62 76 76
Fax +33 / 164 62 76 77

Germany
Amphenol-Tuchel Electronics GmbH
August-Haeusser-Str. 10
74080 Heilbronn
Phone +49 / 71 31 / 9 29-0
Fax   +49 / 71 31 / 9 29-486

Great Britain
Amphenol-Tuchel Great Britain
14 Plover Close
Kempshott, Basingstoke
Hants, RG22 5PQ
Phone +44 / 12 56 / 33 07 49
Fax   +44 / 12 56 / 33 07 49

Hong Kong
Amphenol East Asia Limited
Units 2201-02, Railway Plaza
39 Chatham Road South
Tsimshatsui, Kowloon
Phone +8 52 / 26 99 / 26 63
Fax   +8 52 / 26 88 / 09 74

India
Amphenol-Tuchel Electronics
Plot No. 105 Bhosari Industrial Area
Pune - 411 026
Phone +91 / 20 / 56 11 73 60
Fax   +91 / 20 / 27 12 05 81

Italy
Amphenol-Tuchel Italy
Via Barbaiana n. 5
I-20020 Lainate (MI)
Phone +39 / 2 / 93 25 41
Fax   +39 / 2 / 93 25 44 44

Japan
Amphenol Japan, K.K.
2-3-27, Kudan Minami
Chiyoda-Ku
Tokyo 102
Phone +81 / 3 / 32 63 / 56 11
Fax   +81 / 3 / 52 76 / 70 59

Korea
Amphenol DaeShin Limited
#802 Joong-Dong 1131-5
Wonmi-Ku
Bucheon-City
Kyunggi-Do
Korea 420-020
Phone +82 / 2 / 785 / 15 88
Fax   +82 / 2 / 589 / 15 14

Mexico
Amphenol Mexico
Prolongacion Reforma 61 - 6 B2
Col. Paseo de las Lomas
C.P. 01330 Mexico D.F.
Phone +52 / 55 / 52 58.99 84
Fax   +52 / 55 / 50 81.68 90

Singapore
Amphenol East Asia Limited
Asia Pacific Sales Operation
Singapore Branch
300 Beach Road
#25-07 The Concourse
Singapore 199555
Phone +27 / 11 / 305-95 74
Fax   +27 / 11 / 305-95 76

South Africa
Amphenol International Ltd
Chislehurston
30 Impala Road
Chislehurston
Sandton, 2146
Phone +27 / 11 / 7 83 95 17
Fax   +27 / 11 / 7 83 95 19

Spain
Amphenol-Tuchel Spain
Ctra Sabadell a Mollet,
km 4,5 Nave 5
08130 Santa Perpetue de Mogoda
(Barcelona)
Phone +34 / 93 / 5 74 41 34
Fax   +34 / 93 / 5 74 10 09

Sweden
Amphenol-Tuchel Scandinavia
P.O. Box 20
SE 195 42 Märsta
Phone +46 / 85 91 / 1 75 76
Fax   +46 / 85 91 / 1 75 76

Taiwan
Amphenol East Asia Ltd.
Taiwan Branch (H.K.)
116 Zhong Shan Road
Lane 956 Taoyuan City
Taiwan R.O.C. 330
Phone +886 / 3 / 370 / 78 55
Fax   +886 / 3 / 360 / 72 59

Turkey
Amphenol Turkiye
Ayazaga Mah. Meydan Sk. No. 28
Beybi Giz Plaza, Kat. 26
34396 Maslak/Istanbul
Phone +90 / 0212 / 3 35 25 01
Fax   +90 / 0212 / 3 35 25 00

USA
Amphenol-Tuchel Electronics
6900 Haggerty Road
Suite 200
Canton, Michigan 48187
Phone +1 / 800 / 380 80 52
Phone +1 / 734 / 451 64 00
Fax   +1 / 734 / 451 71 97

Amphenol Corporation
Corporate Headquarters
358 Hall Avenue
Wallingford, CT 06492
Phone +1 / 2 03 / 2 65 / 89 00
Fax   +1 / 2 03 / 2 65 / 86 28

Your engineering sales representative:

General information

Amphenol

Amphenol-Tuchel Electronics GmbH

August-Haeusser- Str. 10 · D-74080 Heilbronn · Deutschland · Phone +49 (0)71 31 / 9 29-0 · Fax +49 (0)71 31 / 9 29-486 · www.amphenol.info

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Memory Card Connectors *category:*

Click to view products by Amphenol *manufacturer:*

Other Similar products are found below :

M21-033321-005 6407-249V-25273P 6407-249V-25343P 69.920.0553.0 DM3AT-SF-PEJM5(41) HMCAP001 2041353-2 33CFAE-DN 10-629549-258N 617230001 95622-003LF N7E50-U516RB-50-SIN0005 95079-00CALF 84648-056HLF 125A-78C00 MI20A-50PD-SF-EJL(71) KP10S-SF-PEJ(812) 504536-0691 CCM03-3109 B LFT MI21-50PD-SF(91) 2309923-1 IC1GA-68PD-1.27DS-EJ(72) GTFP08432B1HR G85DT17001P1EU G85C11101152HHR G85D1160022HHR XKSMO-072-P9 XKNANO-1131-18 XKSIM-1130-1 XKNANO-1131-1 XKTF-1152-1 XKSMC-1200-200 XKSD-1250-1 XKTF-1307-16 XKTF-1250-21 XKNANO-1131-K XKTF-7131-1 XKNANO-1308 XKTF-1251-1 XKTF-1230-51 XKSD-1250-DS28 XKNANO-1131-04 XKSD-1250-29 XKSD-1251-5C1 XKSMC-1200-145 SD-109-ACP13H16 TF-123B-ARP9H17 TF-123B-ARP9H15 TF-123-ARP9H17 TF-123-ARP9H15