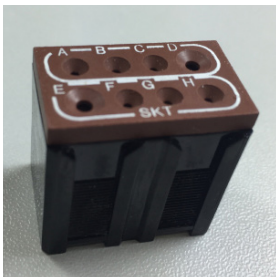


M81714 SERIES II

Amphenol Pcd

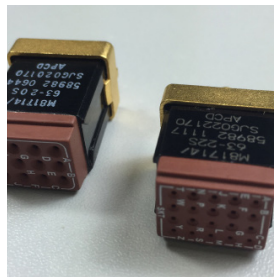
Designed and qualified to MIL-T-81714, Amphenol PCD's Series II Socket Junction Modules are robust, reliable, and always perform to the highest standards. Amphenol PCD offerings cover the full SAE- AS81714 — Feedback/Feedthrough, Board Mount, Electronic, Sealed Splice, and Ground, and use standard AS39029/22 socket contacts to accommodate 12 -26 AWG wires. Mounting rail and installation/ termination accessories are available, and customization is always an option.



*Feedback, Feedthrough
& Busing Modules*



Electronic Modules



Ground Modules



*Single In-Line Splices
Dual In-Line Splices
Electronic Splices*



Mounting Tracks

Feedback, Feedthrough & Busing Modules

The SJM feedback modules offer a lightweight junction system with a full range of busing arrangements and contact sizes. SJM modules meet /60 and /61 specifications.

Electronic Modules

SJE electronic modules offer a wide variety of diodes, resistors, capacitors and fuses in a Series II form factor. SJE modules perform to M81714 specifications and have many /62 equivalents. Many more variations are available, and custom options are always available.

Board Mount Pin Modules

The socket junction modules can be provided in a solder pin version for mounting directly to printed circuit boards, providing a flexible, compact wiring package and eliminating the need for mounting track. Support size 16/ 20 /22 contacts, and PCB thicknesses of .187 and .250.

Grounding Modules

M81714 /63, flange and socket grounding modules mount directly to a ground plane or grounding stud creating a multi-wire sealed grounding device. The grounding modules could also be mounted to a bus bar for power distribution, sensing or metering. All mounting hardware is furnished and custom hardware configurations are available. The mounting stud is available in gold or tin plating. Flange and stud units meet M81714 /63 specs.

In-Line Splices

Series II In-Line Splices are available in single and double configurations, in sizes 16, 20, and 22 AWG. M81714 /65 splices use the same advanced polyetherimide body, one piece bus assembly and construction as Amphenol PCD's other M81714 connectors.

Mounting Tracks

The Series II aluminum mounting tracks meet MIL-T-81714 /67 and can accommodate up to 40 modules. Also available are composite mounting tracks- accommodating up to 20 modules. This track is approximately 45% lighter than the aluminum track and meets all dimensional requirements of MIL-T-81714.

Features & Benefits

SAE-AS81714 & MIL-T-81714

Approved Meets high quality standards

AS39029/22 Socket Type Contacts

Meets military specification AS39029

Integral Bus Bar

Assures electrical and mechanical integrity over long product life
Fewer solder joints for more reliable and repeatable electrical operation

Integral Contacts

High conductivity allows for optimum electrical performance

Split Socket Design

Provides peripheral surface wipe and contact
Maximizes mating surfaces of pin and contact

Class D Module System

Combines max high temperature and high fluid resistance performance parameters previously divided among three module classes: A, B, C

Electronic Systems

Modules can be supplied with a variety of diode, resistors, capacitors, and fuses Meets electronic parameters of MIL-T-81714 /62

Class 3B Silicone Sealant

Tear and flex resistant silicone

Ultrasonic Bonding + Proprietary Epoxy

No bond lines and ultrasonic fusing means few voids, long field life

Product Availability

Largest QPL availability in the industry
Non-QPL variants and custom modules

Technical Specifications

Materials

Insulator Body: Polyetherimide, color: black

Grommet: Silicone elastomer, color: brown Internal

Contacts: Copper alloy, gold plated

Contact Retainers: Stainless steel

Performance

Temperature Range: -65°C to 200°C

Insulation Resistance:

>5000 megohms

AS81714, para 3.5.1

Dielectric Withstanding Voltage:

1500Vrms @ sea level

200Vrms @ 100,000 ft altitude

AS81714-para 3.5.6

Current Ratings (By Contact Size):

Size 22/22: 5 Amps

Size 20/20: 7.5 Amps Size 16/16: 13 Amps

Size 12/12: 23 Amps

Vibration: Per AS81714, para. 3.5.8

Mechanical Shock: Per AS81714, para. 3.5.9

QPL & Non-QPL Coverage

SJM	Modules	M81714/60, /61
SJE	Electronics	Performs to M81714/62 (non-QPL)
SJT	Metal Track	M81714/67
SJTC	Composite Track	Performs to M81714/67
SJG	Ground Modules	M81714/63
SJS	Splices- Single & Dbl	M81714/65
SJP	Board Mount	Performs to M81714 Specs

AVAILABLE IMMEDIATELY

NEW

Series I Electronic Splice

M81714/21 Inline Diodes

M81714/23 Inline Fuses



Class D, QPL certified to SAE-AS81714 Use MilStd Pin Contacts

M39029/1-100 size 22

M39029/1-101 size 20

Reliable & Proven Tried & True – Technology you can trust