

Rectangular Modular Micro

FOR HARSH ENVIRONMENTS AND DIFFICULT APPLICATIONS



Rectangular + Modular + Micro

Compact • Lightweight • Simple • Cost Effective

Amphenol CANADA
MILITARY & AEROSPACE

Amphenol CANADA

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For more than 50 years, Amphenol Canada Corp. a subsidiary of Amphenol Corporation has been an international leader in the manufacture of Rectangular I/O and EMI Filtered Connectors.

We design, manufacture and test EMI / EMP filter and non-filter connectors, which are used worldwide in military, aerospace, and commercial applications. As part of Amphenol Corporation, we have the advantage of access to technologies and processes of Amphenol's worldwide facilities. Our expertise in understanding and supporting our customers' interconnect needs has earned us a reputation of excellence among the world's leading users of electronic components.

CUSTOMER SERVICE

At Amphenol Canada, customer service is a solid commitment from all our employees. Our product managers, application engineers, product specialists, and sales representatives are able to answer your questions and assist you in choosing the right connectors for your applications.

Using Amphenol's on-line computer system, we are able to promptly update you on your order status, provide you with price and delivery quotations, and address any problems or questions you might have.

Whether you need standard or custom designed connectors, our marketing department is your liaison with Amphenol Canada's engineering, quality and manufacturing experts.

QUALITY AND RELIABILITY

Certified to ISO 9001:2015+ AS9100D

Amphenol Canada's broad base of customers and the high levels of technology in which they are involved make it essential that Amphenol's own products are of the highest quality and reliability.

Please contact us for RoHS requirements.



Rectangular Modular Micro

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Amphenol is a global market leader in the design and manufacturing of electrical inter-connect technologies. The Rectangular Modular Micro connector product series is a compact, lightweight, simple and cost effective inter-connect solution.

The Rectangular Modular Micro connector series utilizes a .0787" (2mm) centre-to-centre contact spacing and is designed to work in harsh and difficult applications. Rectangular Modular Micro offers both crimp and PCB type terminations that can work inter-changeably with each other. It is currently offered in a signal only, 2-row design with future product expansion to allow high power and RF contact options in a modular design as well as mixed layout connector design options. This product platform is designed to suit both board and wire applications with signal, power and high frequency contacts. Two Row connectors can support MIN 4x signal contacts & as many as 60 signal contacts or 15 RF or high power contacts. The Rectangular Modular Micro is suited to many industries including; military & commercial aerospace, avionics, controls & much more. Typical applications are flight controls, missiles, radars, satellites, radios & any other applications that require flexible, modular, lightweight connectors



- RoHS Compliant
- Extremely flexible platform that can use any combination of RF, high power & signal contacts
 - Termination includes both PCB solder & crimp contacts
 - Applications include: board to board, board to wire & wire to wire applications
 - Compact footprint compared to other typical connectors
- Meets or exceeds the relevant electrical & environmental performances per BS-9525-F0033
- Robust & durable design with up to 2,500 cycles
- Integral hardware designed to accommodate high vibration & shock applications
- Environmental resistance to most solvents
- Suitable to most soldering environments

MATERIALS

Insulator/Shell: PPS (Polyphenylene Sulfide)

CONTACTS

Pins: Copper Alloy, Nickel over Gold

Sockets: Copper Alloy, Nickel over Gold with Beryllium Copper sockets

HARDWARE

Stainless Steel - Passivated

ELECTRICAL PERFORMANCE

Signal Contacts: 3A MAX

Working Voltage (@ sea level): 800 Vdc

Contact Resistance: 10mΩ MAX

Insulation Resistance: 100 MΩ MIN

MECHANICAL PERFORMANCE

Connector Mating Durability: 2500 cycles

Contact Insertion Force: 2N MAX

Contact Removal Force: 0.2N MIN

Crimp Contact Insertion and Removal Durability: 3 cycles MAX

ENVIRONMENTAL PERFORMANCE

Temperature Range: -60°C to +260°C

Shock: 100g for 6ms



How to Order

Rectangular Modular Micro



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Connector Series	Number of Rows	Gender	Signal (LF) Contact Termination	Signal (LF) Contact Layout	Fixing Hardware	Quantity of RF/RP contacts on LF Contact -1 side	Quantity of RF/RP contacts opposite to LF Contact -1 side	RF/RP Contact Type	Polar Key Shift
RMM-	2	R	01	060-	RA-	01	01	-	KLM

STEP 1:

Connector Series	
RMM-	Rectangular Modular Micro Connector

STEP 2:

Number of Rows	
1	1 Row
2	2 Rows
3	3 Rows

STEP 3:

Gender	
R	Receptacle (Pins)
P	Plug (Sockets)

STEP 4:

Signal (LF) Contact Termination Type	
01	Crimp style, 22 awg
02	Crimp style, 24 - 28 awg
03	Straight PCB, 3.0 mm tail ext
04	Straight PCB, 4.5 mm tail ext
05	Straight PCB, 5.1 mm tail ext
06	Straight PCB, 9.1 mm tail ext
07	90 deg PCB 3.0 mm
08	90 deg PCB 4.5 mm
09	Straight SMT 2.25 mm
10	Straight SMT 3.35 mm
11	90 deg SMT 0.9 mm
12	Press Fit

STEP 5:

Signal (LF) Contact Layout	
002- to 025-	1 Row
004- to 050-	2 Rows (no RF/RP Contacts)
004- to 060-	2 Rows
006- to 120-	3 Rows

STEP 6:

Fixing hardware	
Hardware Code	Hardware Code
Please contact Amphenol Canada for information	
PA-	RA-
PB-	RB-
PC-	RC-
PD-	RD-
PE-	RE-
PF-	RF-
PG-	RG-
PH-	RH-
PJ-	RJ-
PK-	RK-
PL-	RL-
PM-	RM-
PN-	RN-
PP-	RP-
PQ-	RQ-
PR-	RR-
PS-	RS-
PT-	RT-
PU-	RU-
PV-	RV-
PW-	RW-
PX-	RX-
PY-	RY-
PZ-	RZ-

STEP 7:

Quantity of RF/RP contacts on LF Contact -1 side	
Leave blank	1 Row No RF/RP Contacts
01 to 15	2 Rows
01 to 20	3 Rows

STEP 8:

Quantity of RF/RP contacts opposite to LF Contact -1 side	
Leave blank	1 Row No RF/RP Contacts
01 to 15	2 Rows
01 to 20	3 Rows

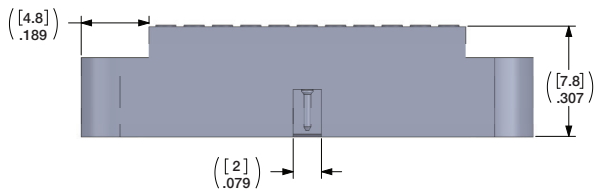
STEP 9:

RF/RP Contact Type
Please contact Amphenol Canada for information

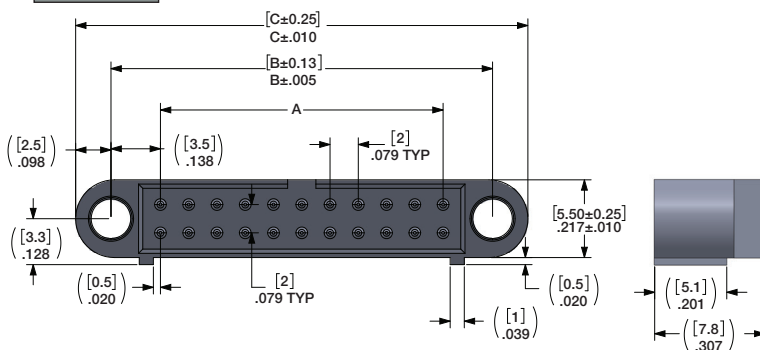
STEP 10:

Polar Key Direction shifted from housing center	
K	K=1 - direction of LF contact 1
K	K=2 - direction opposite LF contact 1
LM	LM=Polarization key shift position compared to center of housing (each shift = 2 mm)

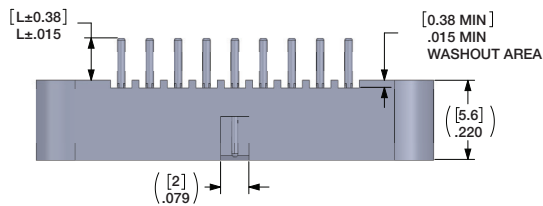
Crimp



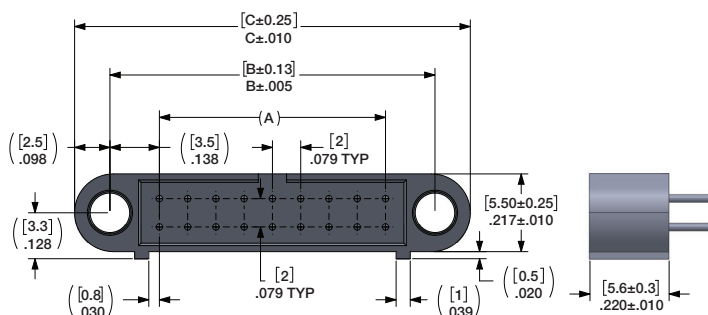
Crimp



PCB



PCB

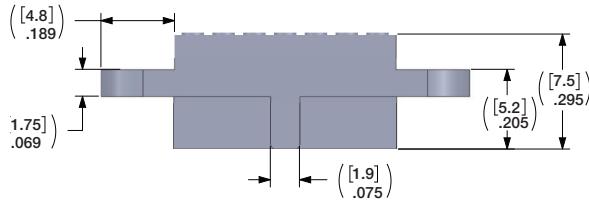


DIMENSION	A		B		C	
No. of CONTACTS	IN	MM	IN .010"	MM .25	IN .010"	MM .25
4	0.079	2	0.354	9	0.551	14
6	0.157	4	0.433	11	0.630	16
8	0.236	6	0.512	13	0.709	18
10	0.315	8	0.591	15	0.787	20
12	0.394	10	0.669	17	0.866	22
14	0.472	12	0.748	19	0.945	24
16	0.551	14	0.827	21	1.024	26
18	0.630	16	0.906	23	1.102	28
20	0.709	18	0.984	25	1.181	30
22	0.787	20	1.063	27	1.260	32
24	0.866	22	1.142	29	1.339	34
26	0.945	24	1.220	31	1.417	36
28	1.024	26	1.299	33	1.496	38
30	1.102	28	1.378	35	1.575	40
32	1.181	30	1.457	37	1.654	42
34	1.260	32	1.535	39	1.732	44
36	1.339	34	1.614	41	1.811	46
38	1.417	36	1.693	43	1.890	48
40	1.496	38	1.772	45	1.969	50
42	1.575	40	1.850	47	2.047	52
44	1.654	42	1.929	49	2.126	54
46	1.732	44	2.008	51	2.205	56
48	1.811	46	2.087	53	2.283	58
50	1.890	48	2.165	55	2.362	60
52	1.969	50	2.244	57	2.441	62
54	2.047	52	2.323	59	2.520	64
56	2.126	54	2.402	61	2.598	66
58	2.205	56	2.480	63	2.677	68
60	2.283	58	2.559	65	2.756	70

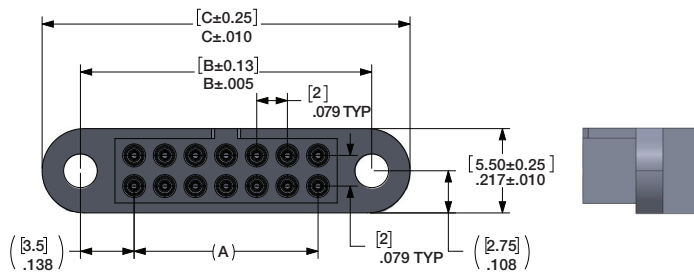
Plugs

Rectangular Modular Micro

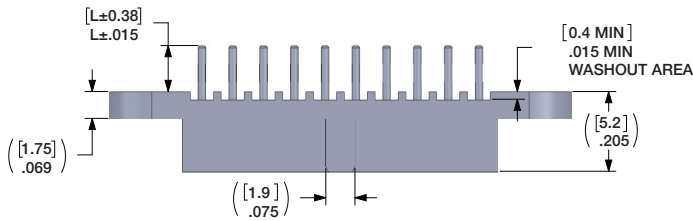
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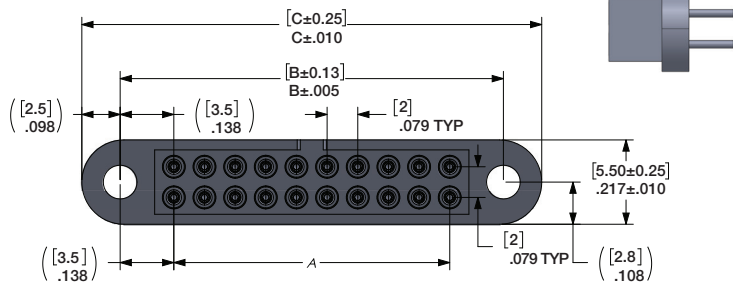
Crimp



PCB



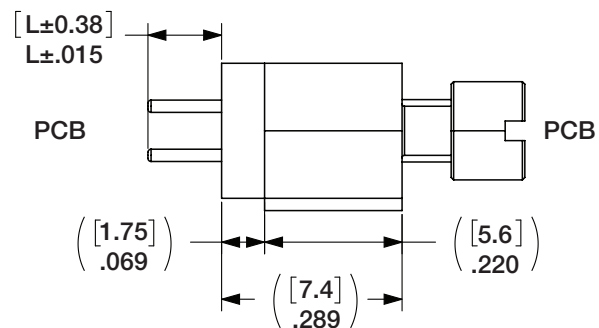
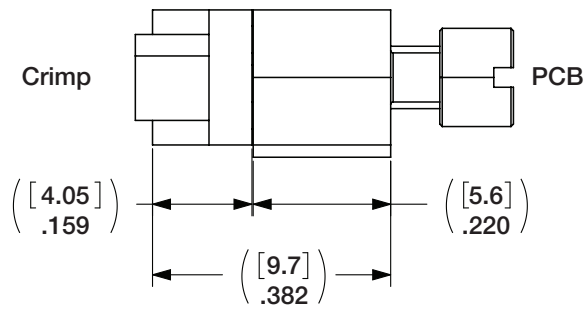
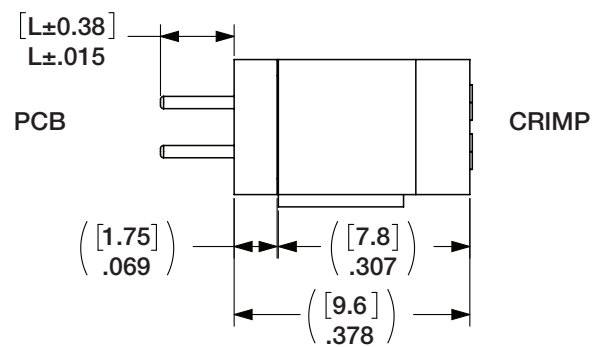
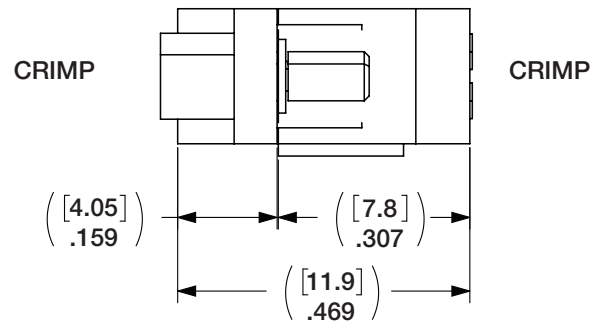
PCB



DIMENSION	A		B		C	
No. of Contacts	In	mm	In .010"	mm .25	In .010"	mm .25
4	0.079	2	0.354	9	0.551	14
6	0.157	4	0.433	11	0.630	16
8	0.236	6	0.512	13	0.709	18
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56	2.126	54	2.402	61	2.598	66
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PLUG

RECEPTACLE



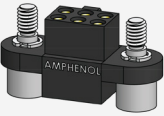
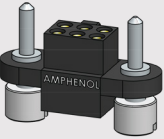
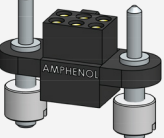
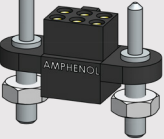
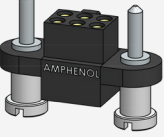
Receptacle-Pin

No.	ACC Code	Contact	Pictures	Description
4	PD	STRAIGHT PCB		Straight on PCB Insert with M2 thread for mounting AVAILABLE IN #2-56?
5	PE	STRAIGHT PCB		Straight on PCB (Thickness 0.8-2mm) Slot Head (Circular) Nut Thread Length = 4mm
	PF	STRAIGHT PCB		Straight on PCB (Thickness 0.8-2mm) Hex Head Nut Thread Length = 4mm
	PG	STRAIGHT PCB		Straight on PCB (Thickness 1.5-4mm) Slot Head (Circular) Nut Thread Length = 6mm
	PH	STRAIGHT PCB		Straight on PCB (Thickness 1.5-4mm) Hex Head Nut Thread Length = 6mm
	PJ	STRAIGHT PCB		Straight on PCB (Thickness 6mm MAX) No Nut Thread Length = 8mm
6	PK	"CRIMP (PCB Mounting)"		Straight on PCB with Float HW

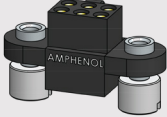
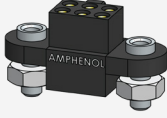
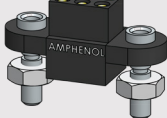
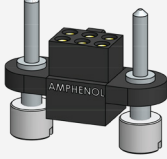
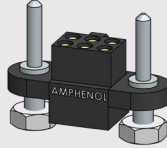
Receptacle-Pin

No.	ACC Code	Contact	Pictures	Description
9	PT	MIXED		Straight on PCB - Reverse Mount Thread length = 2.1mm
	PU	MIXED		Straight on PCB - Reverse Mount Thread length = 4.9mm
10	PV	MIXED		Racking Thread Length = 4mm
	PW	PCB		Racking Thread Length = 4mm

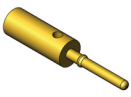
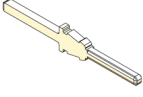
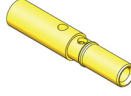
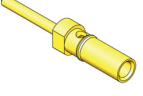
Plug-Socket

No.	ACC Code	Contact	Pictures	Description
1	RA	MIXED		Straight Hex Head Jackscrew held with E-Clip on Plastic Insert No mounting on PCB
3	RC	STRAIGHT PCB		Straight on PCB (Thickness 0.8-2mm) Slot Head (Circular) Nut Thread Length = 4mm Guide Pin at Mating end
	RE	STRAIGHT PCB		Straight on PCB (Thickness 1.5-4mm) Slot Head (Circular) Nut/Thread Length = 6mm Guide Pin at Mating end
	RF	STRAIGHT PCB		Straight on PCB (Thickness 1.5-4mm) Hex Nut/Thread Length = 6mm Guide Pin at Mating end
4	RG	"CRIMP (PCB Mounting)"		Straight on PCB with Float HW

Plug-Socket

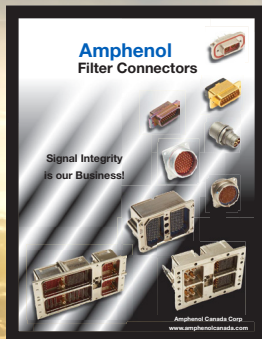
No.	ACC Code	Contact	Pictures	Description
7	RL	MIXED		Straight on PCB (Thickness 1.5-2.5mm) Hex Head (Circular) Nut/Thread Length = 4mm Threaded Hole at Mating end
	RM	PCB		Straight on PCB (Thickness 1.5-2.5mm) Hex Nut/Thread Length = 4mm Threaded Hole at Mating end
	RP	PCB		Straight on PCB (Thickness 1.5-4mm) Hex Nut/Thread Length = 4mm Threaded Hole at Mating end
3	RT	MIXED		Straight on PCB (Thickness 0.8-2mm) Thread Length = 4mm Guide Pin at Mating end
	RU	PCB		Straight on PCB (Thickness 0.8-2mm) Thread Length = 4mm Guide Pin at Mating end

Contacts

	Crimp Type S-C	Straight PCB Type PF Press Fit
Male		
Female		

Amphenol CANADA

MILITARY & AEROSPACE



Filter Connectors



Rectangular Catalog



Micro-miniature

Visit <http://www.amphenolcanada.com/media>
for literature, product data sheets, videos and Patents



Multi-Modular ARINC



ARINC 600 Catalog



ARINC 404 Catalog

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