SMPM TO 65 GHz

SMPM Cable Assemblies RF047-A, RF086, RF23C



VSWR

RF047-A: 1.40 max. **RF086:** 1.40 max. **RF23C:** 1.40 max.

SERIES

RF047-A = (1.2 mm) .047" overshield DIA 29 AWG millimeter cable

RF086

= (2.18 mm) .086" overshield DIA 23 AWG millimeter cable

RF23C

= MWC-2350CU-01 millimeter wave cable with copper foil shield

CONNECTOR

END 2 CONNECTOR

-MOSP

= SMPM Straight Plug, Full Detent

-M0SJ

= SMPM Straight Jack

-MORJ

= SMPM Right-angle Jack (RF047-A only)

-M0BJ

= SMPM Straight Bulkhead Jack (RF047-A only)

-"XXXX"

OVERALL LENGTH

- = Overall Length in millimeters
- -0100 (0100 mm) 3.94" minimum (RF047-A, RF086)
- -0152 (0152 mm) 5.984" minimum (RF23C)

ALSO AVAILABLE

1.85 mm, 2.40 mm, 2.92 mm = RF086

1.35 mm, 1.85 mm, 2.40 mm,

2.40 mm, 2.92 mm = RF23C

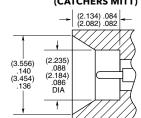
2.92 mm = RF047-A

SMPM Cable Connectors PRFM0



CONNECTORS FOR INDUSTRY STANDARD CABLES	
PRFM0-J-C-EE-047A-BD	.047 Temp-Flex, low loss flexible, 29 AWG
PRFM0-J-C-EE-085-BD	Harbour SS405, flexible alternative to RG 405
PRFM0-J-C-EE-047A-RD	.047 Temp-Flex, low loss flexible, 29 AWG
PRFM0-J-C-EE-086-SD	.086 Temp-Flex, low loss flexible
PRFM0-J-C-EE-047B-SD	.047 Temp-Flex, low loss flexible, 28 AWG
PRFM0-P-C-HG-047A-SD	.047 Temp-Flex, low loss flexible, 29 AWG
PRFM0-J-C-HG-047A-SD	.047 Temp-Flex, low loss flexible, 29 AWG

INTERFACE STANDARD (CATCHERS MITT)



- P-C = Cable Plug
- J-C = Cable Jack
- $EE = Plating (50 \mu'' Gold center contact, & outer contact)$
- HG = Plating (30 μ " Gold center contact, 10 μ " Gold outer contact)
- SD = Straight, Direct Solder
- BD = Bulkhead, Direct Solder
- RD = Right-angle, Direct Solder

SMPM Board Connectors SMPM-SM, SMPM-TH, SMPM-RA

Cable Mates:

RF047-A, RF086, RF23C



(4.06) .160

(4.06)

SMPM GENDER

-ST-SM-1

TYPE

PLATING

ORIENTATION

-ST

= Straight

-RA

= Righ-angle

(-TH required)

(3.76) - .148 DIA





-PF = Full Detent

-PS = Smooth Bore

-PC = Catchers Mitt (-ST-TH only)

= PCB Mount

-HG = 30 μ " (0.76 μ m) Gold center contact, 10 μ" (0.25 μm) Gold outer contact (–ST only)

-HF

= 30 μ " (0.76 μ m) Gold center contact, 3 μ" (0.08 μm) Gold outer contact (–RA only)



–EE = 50 μ" (1.27 μm) Gold center contact and outer body (–SM only) (3.99) .157 DIA

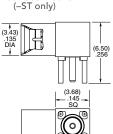


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-EM = Drop-in Edge Mount (–ST only)

-TH = Through-hole

-SM = Surface Mount



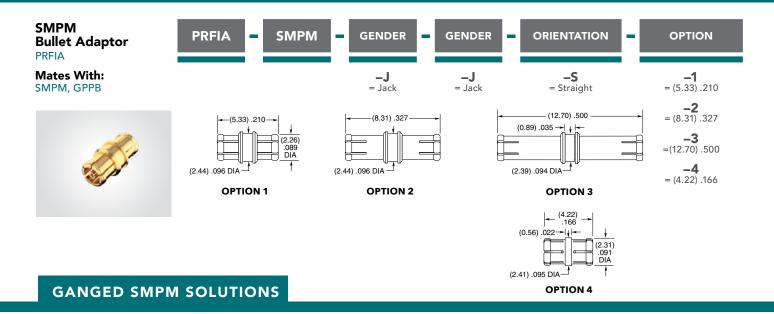
-RA-TH-1

((() \odot -ST-TH-1

-ST-EM-1 samtec.com/SMPM



SMPM TO 65 GHz



BOARD-TO-BOARD GANGED, MULTI-POSITION SMPM BLOCKS

Series: GPPB
Mates with: PRFIA

FEATURES

- High-density, space-saving design
- 8.33 mm (.328") pitch (3.56 mm (.140") pitch in development)
- Push-on interface with varying retention forces
- Bullet adaptors enable blind mate applications accommodating axial and radial misalignment
- Board height options: 4.22 mm (.166") , 5.33 mm (.210"), 8.31 mm (.327"), 12.70 mm (.500")

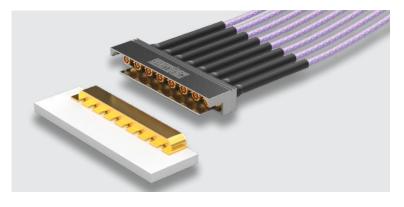


CABLE-TO-BOARD GANGED, MULTI-POSITION SMPM CABLE ASSEMBLY

Cable Assembly: GC47
Board Mate: GPPC

FEATURES

- High-density, space-saving design
- Pitch: 3.56 mm (.140")
- Push-on interface for quick installation
- .047 low-loss flexible microwave/millimeter wave cable



Applications include: 5G wireless, mmWave, military/defense, telecom, radar, test & measurement, applications that are space limited and require high operating frequency

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