

# QMA Male Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, RG405

### **FMCN1887**

### Configuration

- · QMA Male Connector
- 50 Ohms
- · Straight Body Geometry

#### **Features**

- · Operating Frequency of 18 GHz Max.
- PIM levels better than -130 dBc

#### **Applications**

· General Purpose Test

- · Solder/Solder Method
- Connector Interface Types: FM-SR086ALTN, FM-SR086TB, RG405
- Gold Plated Beryllium Copper Contact
- Custom Cable Assemblies

#### **Description**

QMA Male Standard Connector Solder/Solder Attachment for FM-SR086ALTN, FM-SR086TB and RG405 Cable, part number FMCN1887, from Fairview Microwave is in-stock and ships same day. This QMA male connector operates up to a maximum frequency of 18 GHz. The QMA male connector also has low passive intermodulation (PIM) of -130 dBc.

Fairview's QMA male connector FMCN1887 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Return Loss		23	32	dB
Passive Intermodulation		-130		dBc
Operating Voltage (AC)			250	Vrms
Test Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	70			dB
Impedance		50		Ohms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
Return Loss, Max	32	23				dB

Electrical Specification Notes: Insertion Loss = 0.05 \* SQRT f(GHz)



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#### **Mechanical Specifications**

Size

Length 0.67 in [17.02 mm] Width 0.413 in [10.49 mm] Height 0.413 in [10.49 mm] Weight 0.013 lbs [5.9 g] Mating Cycles 100 Cycles 13.48 lbs [6.11 kg] Cable Retention Force **Engagement Force** 5.62lbs [2.55kg] Disengagement Force 4.49lbs [2.04kg]

#### **Material Specifications**

Description	Material	Plating	
Contact	Beryllium Copper	Gold	
Insulation	PTFE		
Outer Conductor	Bronze	Tri-Metal	
Body	Brass	Gold	
Coupling Nut	Brass	Nickel	

### **Environmental Specifications**

**Temperature** 

 Operating Range
 -40 to +85 deg C

 Storage Range
 -40 to +85 deg C

 Vibration
 IEC 60068-2-64 random

 Thermal Shock
 IEC 60169-1 16.4 (-40 / +85°C)

 Salt Spray
 IEC 60169-1 16.7 (48 hrs)

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

QMA Male Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, RG405 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: QMA Male Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, RG405 FMCN1887

URL: https://www.fairviewmicrowave.com/qma-male-fm-sr086altn-fm-sr086tb-rg405-connector-fmcn1887-p.aspx

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