

## 0 to 100 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Insertion Loss			1.2	dB
Attenuation Value		0 to 100		dB
Step Size		1		dB
Step Type		Dial		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
VSWR			1.5:1	

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3					GHz

### Mechanical Specifications

#### Size

Length	4.72 in [119.89 mm]
Width	1.18 in [29.97 mm]
Height	2.1 in [53.34 mm]
Weight	0.954 lbs [432.73 g]

#### Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female

### Environmental Specifications

#### Temperature

Operating Range	-20 to 85 deg C
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### Features:

- DC to 3 GHz Frequency Range
- 1 dB steps from 0 to 100 dB Attenuation
- Rotary Dial Control
- N Female Connectors
- -20°C to + 85°C Operating Temperature
- ± 1.5 dB Attenuation Accuracy Max

### Applications:

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

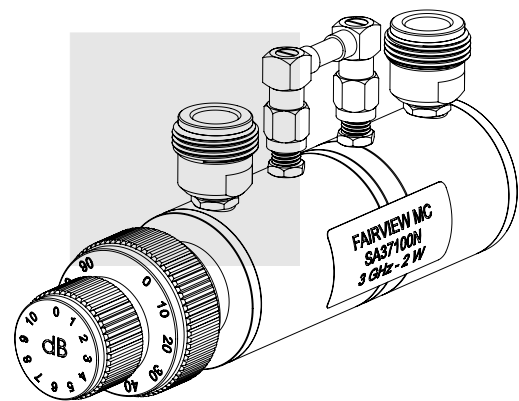
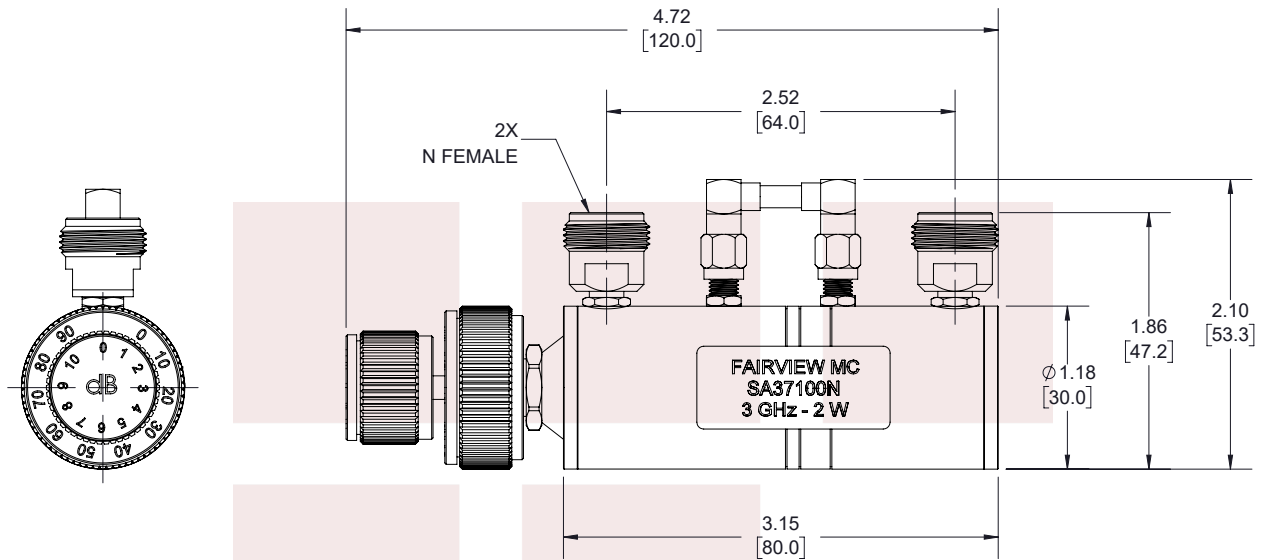
0 to 100 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [0 to 100 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design SA37100N](#)

URL: <https://www.fairviewmicrowave.com/100db-step-attenuator-1db-n-female-dc-3-ghz-2-watts-sa37100n-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR SA37100N	12/17/2019	S.PONG



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TITLE  
0 to 100 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. SA37100N	REV A
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T-Rev.D