

EQUALIZER NEGATIVE SLOPE

**0.5 - 18.0 GHz
FIXED**

api 
technologies corp.
> INMET

MODELS: EQ2301-XX, EQ2301T-XX, EQ2301N-XX

SPECIFICATIONS:

Electrical:

Frequency Range _____ .5 - 18 GHz
Response Shape _____ Negative Slope
Insertion Loss at 18 GHz:
3 - 6 dB _____ 1.5 dB
7 - 10 dB _____ 2.0 dB
11 - 15 dB _____ 2.5 dB
16 - 20 dB _____ 4.0 dB
21 - 25 dB _____ 5.0 dB
26 - 35 dB _____ 6.0 dB

Amplitude at .5 GHz _____ 3 to 35 dB
(Relative to loss at 18 GHz)

Linearity:

3 - 6 dB _____ ± 0.75 dB
7 - 10 dB _____ ± 1.0 dB
11 - 25 dB _____ $\pm 10\%$ dB
26 - 35 dB _____ ± 4.0 dB

VSWR:

Input/Output _____ 1.80:1 Max.

Mechanical:

Housing _____ Passivated Stainless Steel

SMA Connectors _____ Passivated Stainless Steel

Mates with MIL-STD-348

Conductors _____ Gold Plated Beryllium Copper

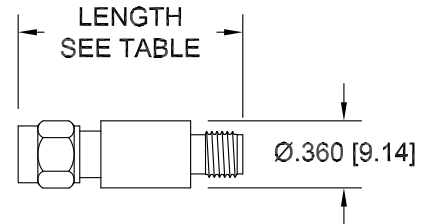
Temperature Range:

Operating _____ -54°C to +125°C

Non-Operating _____ -65°C to +125°C

For Epoxy sealed Connector add -440 to Model Number

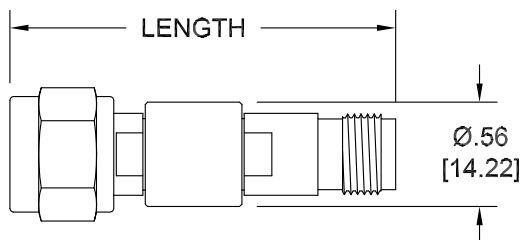
Model Number: **EQ2301-XX**
SMA CONNECTORS



Connector Configuration	OVERALL LENGTH	
	3 - 20 dB	21 - 35 dB
Male/Female	1.205 $\pm$.05 [30.61 $\pm$ 1.27]	1.575 $\pm$.05 [40.01 $\pm$ 1.27]
Male/Male	1.330 $\pm$.05 [33.78 $\pm$ 1.27]	1.705 $\pm$.05 [43.31 $\pm$ 1.27]
Female/Female	1.060 $\pm$.05 [26.92 $\pm$ 1.27]	1.445 $\pm$.05 [36.70 $\pm$ 1.27]

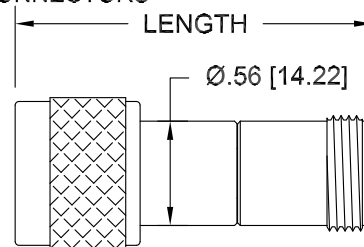
See Website for Typical Performance Graphs and Application Notes

Model Number: **EQ2301T-XX**
TNC CONNECTORS



Connector Configuration	OVERALL LENGTH	
	3 - 20 dB	21 - 35 dB
Male/Female	2.07 $\pm$.05 [52.58 $\pm$ 1.27]	2.44 $\pm$.05 [61.98 $\pm$ 1.27]
Male/Male	1.96 $\pm$.05 [49.78 $\pm$ 1.27]	2.34 $\pm$.05 [59.44 $\pm$ 1.27]
Female/Female	2.16 $\pm$.05 [54.86 $\pm$ 1.27]	2.54 $\pm$.05 [64.52 $\pm$ 1.27]

Model Number: **EQ2301N-XX**
TYPE N CONNECTORS



Connector Configuration	OVERALL LENGTH	
	3 - 20 dB	21 - 35 dB
Male/Female	1.90 $\pm$.05 [48.26 $\pm$ 1.27]	2.28 $\pm$.05 [57.91 $\pm$ 1.27]
Male/Male	1.82 $\pm$.05 [46.23 $\pm$ 1.27]	2.20 $\pm$.05 [55.88 $\pm$ 1.27]
Female/Female	1.99 $\pm$.05 [50.55 $\pm$ 1.27]	2.37 $\pm$.05 [52.58 $\pm$ 1.27]

HOW TO ORDER:

Model Number: **EQ2301Z-XXY-ZZZ**

Connector Type _____
= SMA
N = Type N
T = TNC
dB Value _____
440 = Epoxy Sealed Connectors.
Connector Configuration _____
= Male/Female
F = Fem/Fem
M = Male/Male

Ordering Examples:

Model Number: **EQ2301-03**
3 dB; SMA - Male/Fem

Model Number: **EQ2301N-18F**
18 dB; Type N - Fem/Fem

Model Number: **EQ2301-06-440**
6dB; SMA - Male/Fem; Epoxy Sealed S/A

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.

Design specifications are subject to change without notice.

Contact factory for technical specifications before purchasing or use.

EQ2301-XX; REV D

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