

EQUALIZER NEGATIVE SLOPE

**2 - 18 GHz
FIXED**

api 
technologies corp.
INMET

MODELS: EQ1251-XX, EQ1251-XXM, EQ1251-XXF

SPECIFICATIONS:

Electrical:

Frequency Range _____ 2 - 18 GHz
Response Shape _____ Negative Slope
Insertion Loss at 18 GHz:

2 - 6 dB _____ 1.5 dB
7 - 10 dB _____ 2.0 dB
11 - 15 dB _____ 2.5 dB
16 - 20 dB _____ 4.0 dB
21 - 35 dB _____ 6.0 dB

Amplitude at 2 GHz _____ 3 to 35 dB
Linearity: _____ (Relative to loss at 18 GHz)

2 - 10 dB _____ ± 0.75 dB
11 - 15 dB _____ ± 1.5 dB
16 - 20 dB _____ ± 3.0 dB
21 - 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

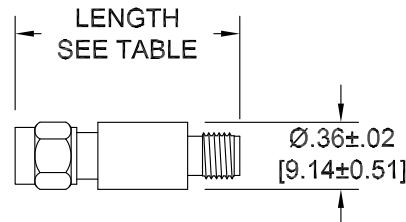
Conductors _____ Gold Plated Beryllium Copper

Temperature Range:

Operating _____ -54°C to $+125^{\circ}\text{C}$

Non-Operating _____ -65°C to $+125^{\circ}\text{C}$

Model Number: **EQ1251-XX**
SMA CONNECTORS

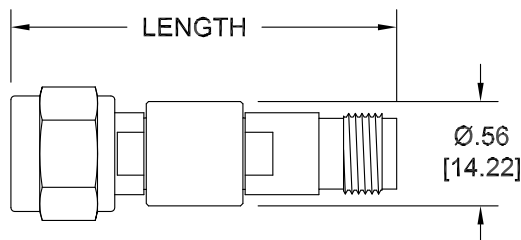


Connector Configuration	OVERALL LENGTH	
	2 - 17 dB	18 - 35 dB
Male/Female	1.205 $\pm$.025 [30.61 $\pm$ 0.64]	1.575 $\pm$.025 [40.01 $\pm$ 0.64]
Male/Male	1.330 $\pm$.030 [33.78 $\pm$ 0.76]	1.705 $\pm$.030 [43.31 $\pm$ 0.76]
Female/Female	1.060 $\pm$.015 [26.92 $\pm$ 0.38]	1.445 $\pm$.015 [36.70 $\pm$ 0.38]

See Website for Typical Performance Graphs and Application Notes

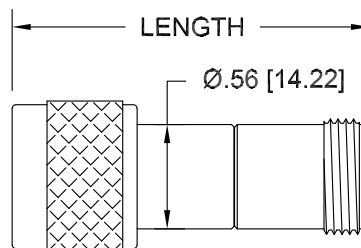
For Epoxy sealed Connector add -440 to Model Number

Model Number: **EQ1251T-XX**
TNC CONNECTORS



Connector Configuration	OVERALL LENGTH	
	2 - 17 dB	18 - 35 dB
Male/Female	2.07 $\pm$.03 [52.58 $\pm$ 0.76]	2.44 $\pm$.03 [61.98 $\pm$ 0.76]
Male/Male	1.96 $\pm$.03 [49.78 $\pm$ 0.76]	2.34 $\pm$.03 [59.44 $\pm$ 0.76]
Female/Female	2.16 $\pm$.03 [54.86 $\pm$ 0.76]	2.54 $\pm$.03 [64.52 $\pm$ 0.76]

Model Number: **EQ1251N-XX**
TYPE N CONNECTORS



Connector Configuration	OVERALL LENGTH	
	2 - 17 dB	18 - 35 dB
Male/Female	1.90 $\pm$.03 [48.26 $\pm$ 0.76]	2.28 $\pm$.03 [57.91 $\pm$ 0.76]
Male/Male	1.82 $\pm$.03 [46.23 $\pm$ 0.76]	2.20 $\pm$.03 [55.88 $\pm$ 0.76]
Female/Female	1.99 $\pm$.03 [50.55 $\pm$ 0.76]	2.37 $\pm$.03 [52.58 $\pm$ 0.76]

HOW TO ORDER:

Model Number: **EQ1251Z-XXY-XXX**

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: **EQ1251-03**
3 dB; SMA - Male/Fem

Model Number: **EQ1251N-18F**
18 dB; Type N - Fem/Fem

Model Number: **EQ1251-06-440**
6 dB; SMA - Male/Fem; Epoxy Sealed

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.

EQ1251; REV L

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