

MECHANICAL CHARACTERISTICS

Outer Diameter, inch (mm)	0.293 (7.44)
Minimum Bend Radius, inch (mm)	0.75 (19.05)
Flexures	35,000
Weight, grams/ft. (meter)	42 (137.8)

ELECTRICAL CHARACTERISTICS

Impedance(ohms)	50
Frequency Range (GHz)	0.05 – 18
Velocity of Propagation	82%
Capacitance, pF/ft. (pF/meter)	24.5 (80.38)
Shielding Effectiveness, dB @ 1GHz	>100
Maximum Insertion Loss , dB/ft. (dB/meter)	Frequency

1.0 GHz
10.0 GHz
18.0 GHz
26.5 GHz
40.0 GHz
50.0 GHz

Insertion Loss per Catalog
0.06 (0.2)
0.18 (0.59)
0.25 (0.82)
N/A ()
N/A ()
N/A ()

Phase Stability Versus Flexure	10 GHz: 2 ⁰
	18 GHz: 3 ⁰

VSWR	Based on connector selections.
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ENVIRONMENTAL CHARACTERISTICS

Temperature Range(Deg C)	-65/+165
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MATERIALS

Outer jacket	Fluorinated Ethylene Propylene (FEP)
Braid	SPC Braid
Outer Conductor	Silver plated copper tape
Dielectric	ULD PTFE
Center Conductor	7 Strand SPC

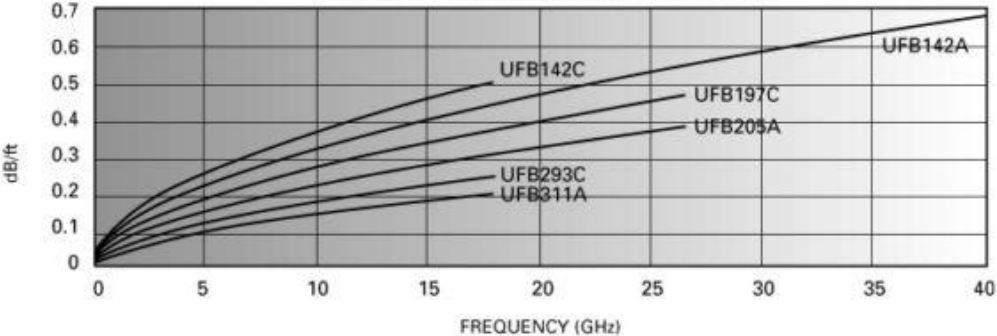
CUTAWAY



**Not typical for UGN070D

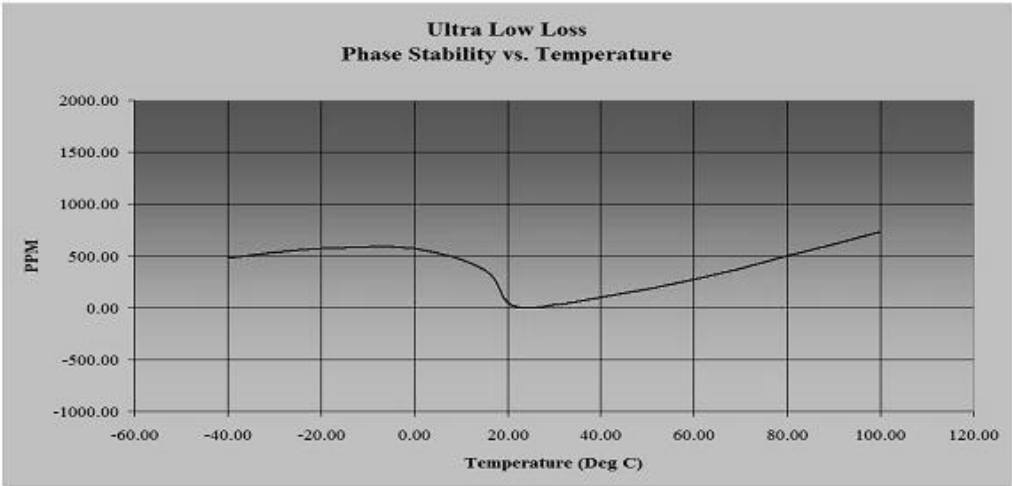
CHARTS

MAXIMUM INSERTION LOSS



Insertion Loss Chart

Phase Chart



Power Chart

Average Power Handling, Watts CW at 20 degrees Celsius and Sea level

