

MECHANICAL CHARACTERISTICS

Outer Diameter, inch (mm)	0.142 (3.61)
Minimum Bend Radius, inch (mm)	0.38 (9.65)
Flexures	35,000
Weight, grams/ft. (meter)	9.9 (31)

ELECTRICAL CHARACTERISTICS

Impedance(ohms)	50
Frequency Range (GHz)	0.05 – 40
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
0.11 (0.36)
0.36 (1.18)
0.49 (1.61)
0.59 (1.94)
0.74 (2.43)
N/A ()

Phase Stability Versus Flexure	10 GHz: 3 ⁰
	18 GHz: 5 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 Alloy Braid
Outer Conductor	Silver plated copper tape
Dielectric	ULD PTFE
Center Conductor	7 Strand SPC

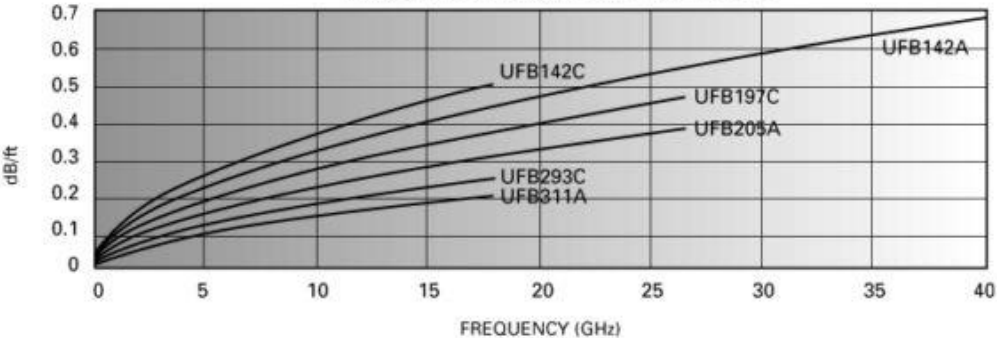
CUTAWAY



**Not typical for UGN070D

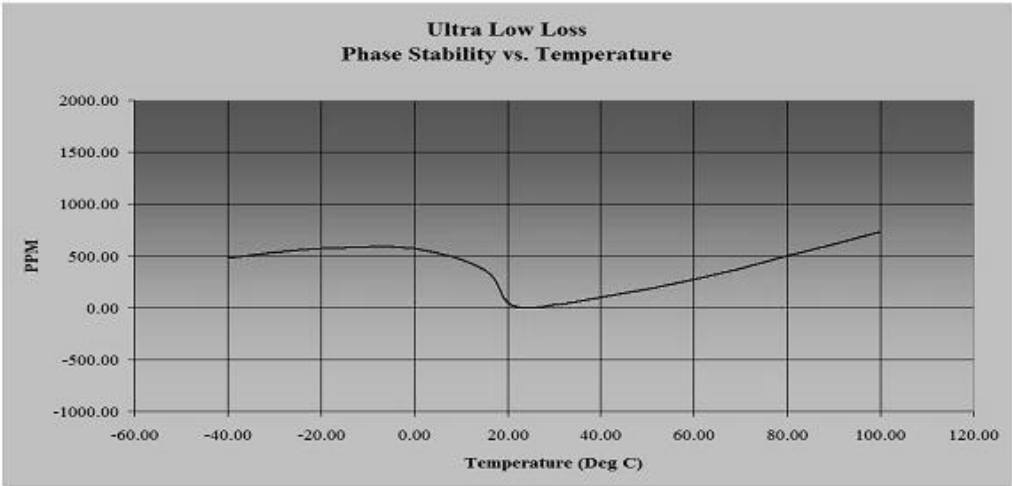
CHARTS

MAXIMUM INSERTION LOSS



Insertion Loss Chart

Phase Chart



Power Chart

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

