

Ultra Low Loss High Temperature Cable Assembly (SMA Male-Male)

High Temperature Cable Assembly

Part No. :

SMS111HT-GUL200HT-SMS111HT-xx.0M

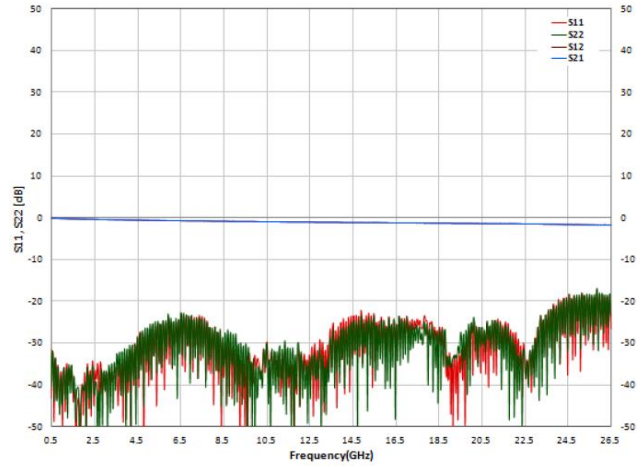
- Cable [GUL200HT]

- Center conductor : silver plated copper
- Dielectric core : low density PTFE tape
- Outer conductor : silver plated copper
- Jacket : FEP [BLK]

- Connector

- Material : SUS(303) / Brass / PTFE
- Type : SMA Straight Male
SMA Straight Male

Measurement Graph



Cable Assembly Drawing



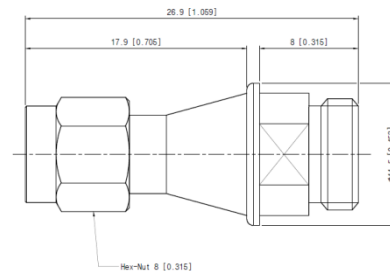
Cable Specifications



Physical & Environmental Specification

Frequency range	DC to 18 GHz
Center Conductor [mm]	1.45
Out diameter [mm]	5.2
Jacket Material	FEP (BLK)
Minimum bend radius (Min.)	25.5
Weight [g/m]	60
Temperature range	-55 ~ 150 °C

Connector Specifications



Physical & Environmental Specification

Impedance	50 Ω
Body	SUS 303
Center Conductor	Brass
Insulator	PTFE
max. VSWR [@18GHz]	<1.25 : 1

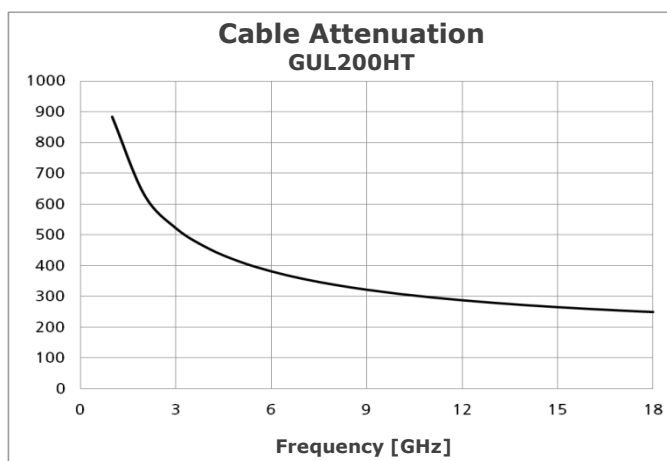
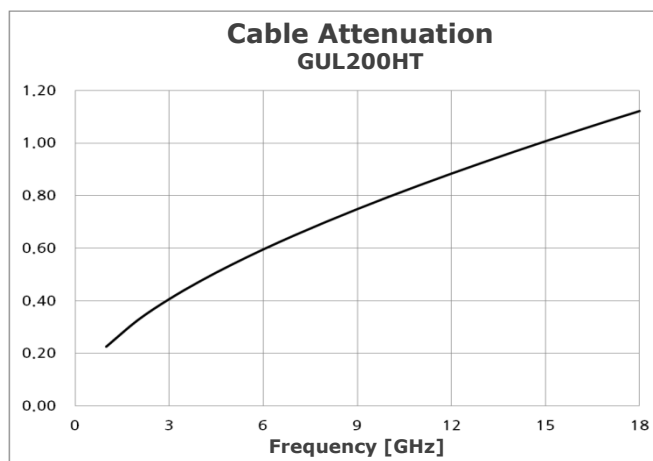
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Electrical Specification

Impedance	50 Ω
VSWR [max.] @18GHz	<1.25 : 1
Velocity of propagation	84% nom.
Dielectric constant	1.4
RF leakage [@18GHz]	>-90 dB
Time delay [ns/m]	4.0
Capacitance [pF/m]	79
Phase stability vs. flexure [@18GHz max.]	< 0.4 °
IL stability vs. flexure [dB @minimum BR]	< 0.1
Phase stability vs. temp. [deg/GHz/m](-50~100°C)	< 2 °

Attenuation & Power



Attenuation [dB/m] [Raw Cable]

1 GHz	0.25
3 GHz	0.42
6 GHz	0.58
12 GHz	0.85
18 GHz	1.09

Power Handling [W] @ + 25 °C (Sea level)

1 GHz	850
2 GHz	600
6 GHz	345
12 GHz	300
18 GHz	240