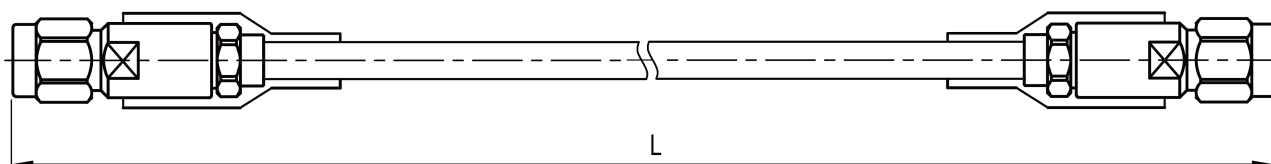




Ultra-Low Loss Phase Stable Cable Assembly, RCA510-SMSM-L SMA Male to SMA Male, DC-26.5GHz, ø5.1mm

Dimensions(mm) Tolerance $\pm 1\%$



Electrical & Environmental

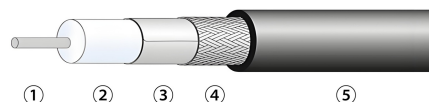
Frequency Range	DC-26.5GHz, 50 Ohms
Avg Power@25°C	169W @26.5GHz, 369W @6GHz
Insertion Loss@1M	1.88 dB Max @26.5GHz
VSWR	1.3 Max
Dielectric Constant	1.45
Capacitance	80 pF/m
Inductance	0.18 uH/m
Velocity of Propagation	83%
Shielding Effectiveness	90dB Min
Withstand Voltage	1500V@DC
Temperature Phase	750 PPM Max
OT	-55~+165°C

Product Information

Product Number	RCA510-SMSM-L
Product Type	Ultra-Low Loss Phase Stable Cable Assembly
Cable	RCA510
Connector	SMA Male to SMA Male
Connector Body	Passivated stainless steel
Center Contact	Gold plated beryllium copper
Bend Radius	25.50mm
Bend Radius (Repeated)	51.00mm

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

RCA510 Structure Characteristics



Structure	Material	ΦD(mm)
1.Center Conductor	Single-core Silver-plated Copper	1.45
2.Dielectric	LD-PTFE	3.99
3.Inner shield	Silver-plated Copper Tape Wrapping	4.19
4.Outer Shield	Silver-plated Copper Wire Braiding	4.60
5.Jacket	Gray FEP	5.10

RCA510 Replacement Model

Micro-Coax	UFB205A
ZDecl	ZLB510

Product Selection and Loss Index @25°C

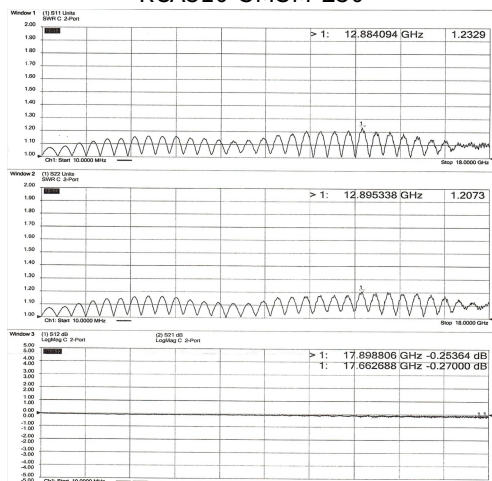
RFTOP P/N	3GHz	15GHz	26.5GHz
RCA510-SMSM-250	0.7 dB	0.83 dB	0.92 dB
RCA510-SMSM-300	0.72 dB	0.88 dB	0.98 dB
RCA510-SMSM-500	0.8 dB	1.07 dB	1.24 dB
RCA510-SMSM-600	0.85 dB	1.16 dB	1.37 dB
RCA510-SMSM-1M	1.01 dB	1.53 dB	1.88 dB
RCA510-SMSM-2M	1.42 dB	2.47 dB	3.15 dB



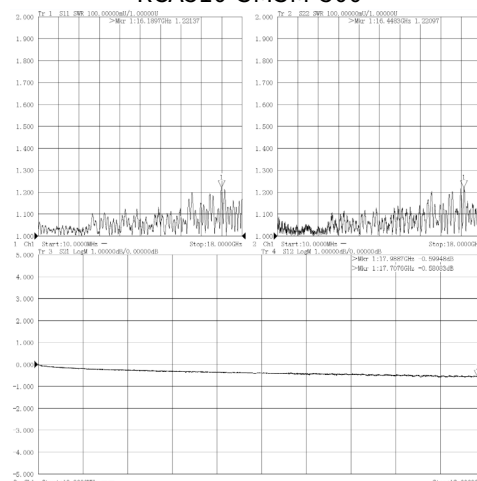
Ultra-Low Loss Phase Stable Cable Assembly, RCA510-SMSM-L SMA Male to SMA Male, DC-26.5GHz, ø5.1mm

Typical Test Data

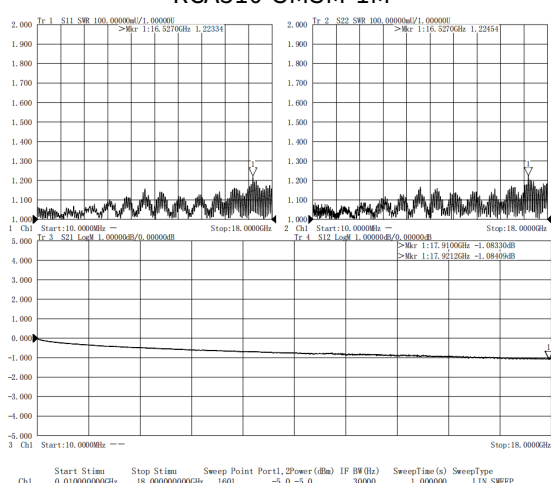
RCA510-SMSM-250



RCA510-SMSM-500



RCA510-SMSM-1M



RCA510-SMSM-2M

