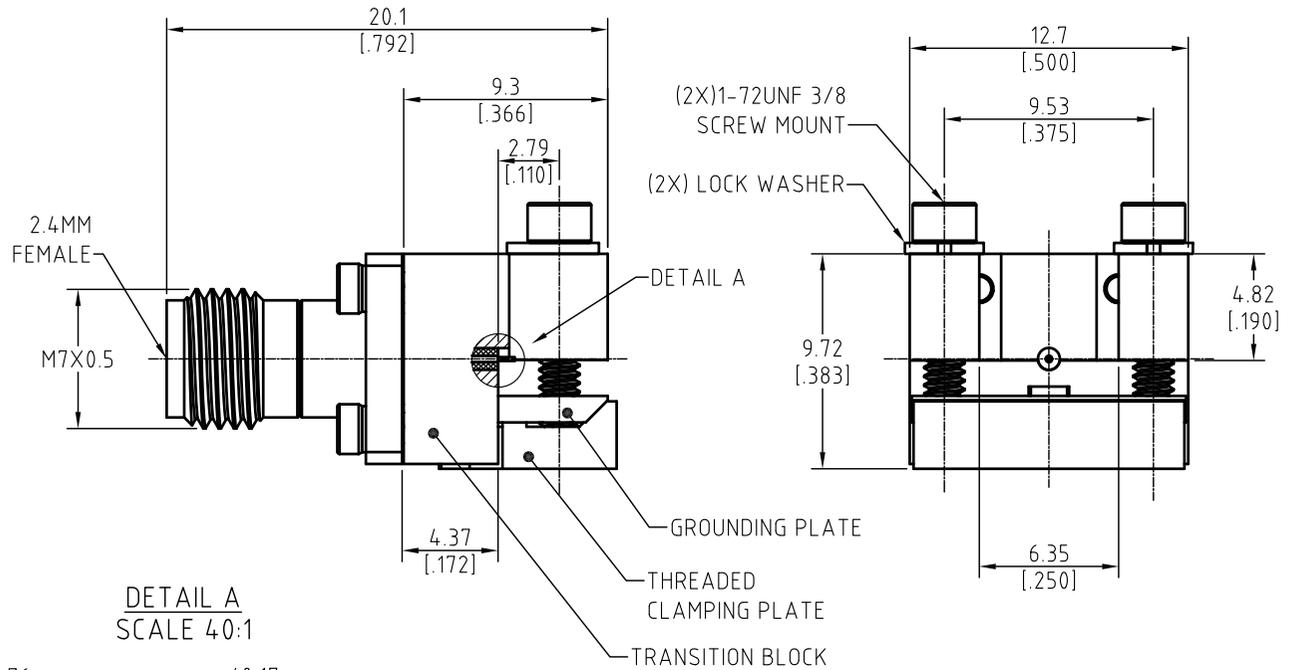
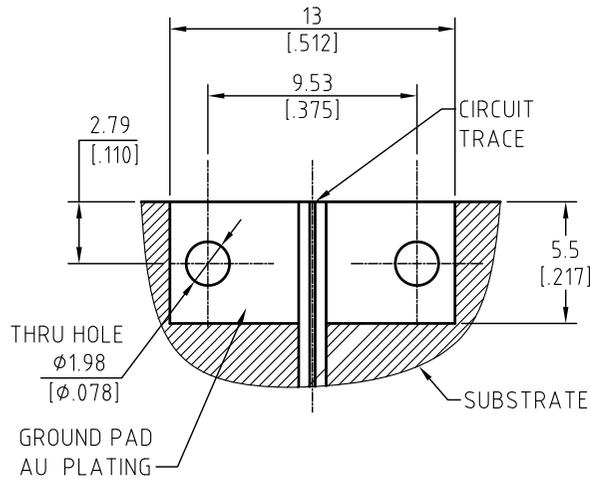
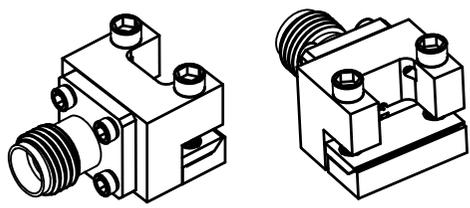
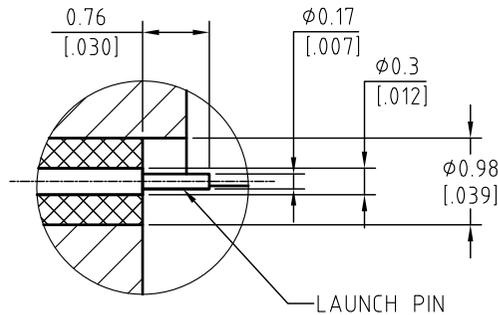


REV	△	DESCRIPTION	CHNGD SHEET	ECO NO.	DATE	DRAWN	APPROVED
-----	---	-------------	-------------	---------	------	-------	----------

RECOMMENDED PCB LAYOUT



DETAIL A
SCALE 40:1



- NOTE:
1. IMPEDANCE: 50 OHM
 2. FREQUENCY RANGE: DC ~50 GHZ
 3. VSWR: 1.4 max.
 4. INSERTION LOSS: 0.05 X SQRT(F IN GHZ)
 5. DWV: 500 VRMS MIN.
 6. OPERATING TEMP: -40C° TO +155C°
 7. APPLY FOR PCB THICKNESS: 0.8~1.6MM

THREADED CLAMPING PLATE	BRASS	NICKEL PLATE
GROUNDING PLATE	BRASS	NICKEL PLATE
TRANSITION BLOCK	BRASS	NICKEL PLATE
CONN. BODY	STAINLESS STEEL	PASSIVATED
DIELECTRIC	ULTEM& PTFE	NATURAL
CENTER CONTACTS	BECU	GOLD
DESCRIPTION	MATERIAL	FINISH

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS IN mm

TOLERANCES:

GENERAL:

X ±0.2
X.X ±0.1
X.XX ±0.05

ANGLES: ±2°

ROUGHNESS: $\sqrt{3.2}$

VIEW PROJECTION:



Xi'an Longtrox Scien-Tech Co., Ltd.
www.longtrox.com

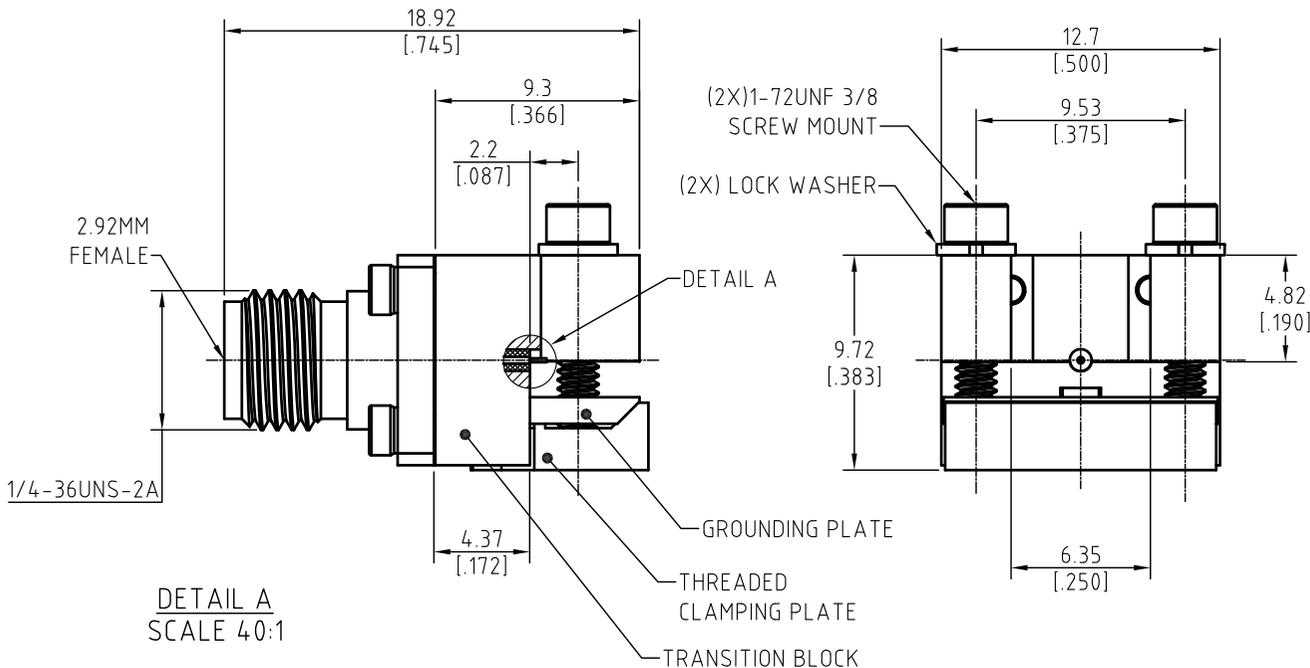
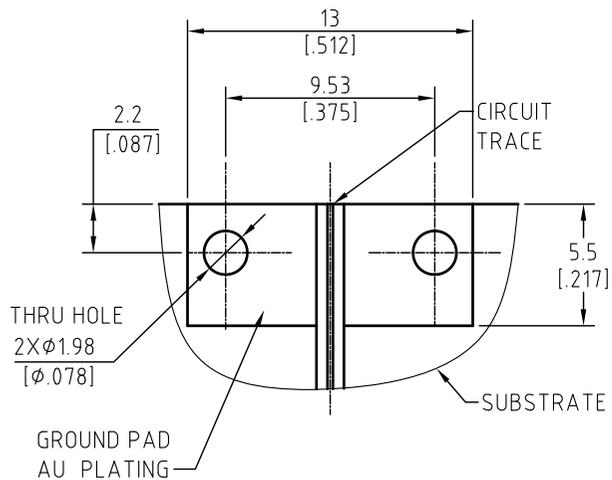
TITLE:

2.4mm FEMALE END LAUNCH CONNECTOR LOW PROFILE
2.4-KEL953-0.2A

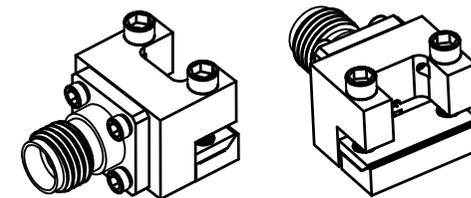
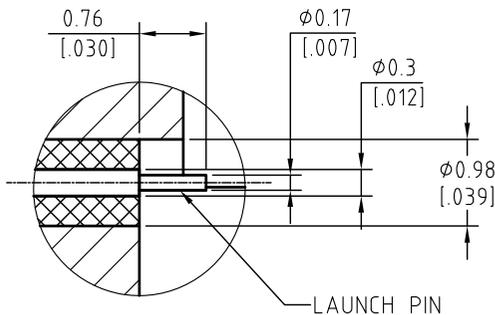
PROJECT:

DRAWN	Zhang	2024.12.13	PART NO:	REV:
DESIGNED	Zhang	2024.12.13	DWG NO:	REV:
CHECKED	Nan	2024.12.13	FILE:	A1
APPROVED	DAMI WANG	2024.12.13	SCALE:	10:1
	NAME	SIGNATURE	DATE	SHEET/OF: 1/1
				SIZE: A4

RECOMMENDED PCB LAYOUT



DETAIL A
SCALE 40:1



- NOTE:
- 1. IMPEDANCE: 50 OHM
 - 2. FREQUENCY RANGE: DC ~40 GHZ
 - 3. VSWR: 1.35 max.
 - 4. INSERTION LOSS: 0.03 X SQRT(F IN GHZ)
 - 5. DWV: 500 VRMS MIN.
 - 6. OPERATING TEMP: -40C° TO +155C°
 - 7. APPLY FOR PCB THICKNESS: 0.8~1.6MM

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS IN mm

TOLERANCES:

GENERAL:

- X ±0.2
- X.X ±0.1
- X.XX ±0.05

ANGLES: ±2°

ROUGHNESS: 3.2

VIEW PROJECTION:



Xi'an Longtrox RF Scien-Tech Co.,Ltd.
www.longtroxrf.com

TITLE:
2.92mm FEMALE END LAUNCH CONNECTOR LOW PROFILE
2.92-KEL953-0.2

PROJECT:

DRAWN	Zhang	2024.12.31	PART NO:	REV:
DESIGNED	Zhang	2024.12.31	DWG NO:	—
CHECKED	Nan	2024.12.31	FILE:	A1
APPROVED	DAMI WANG	2024.12.31	SCALE:	10:1
	NAME	SIGNATURE	DATE	SHEET/OF: 1 / 1
				SIZE: A4

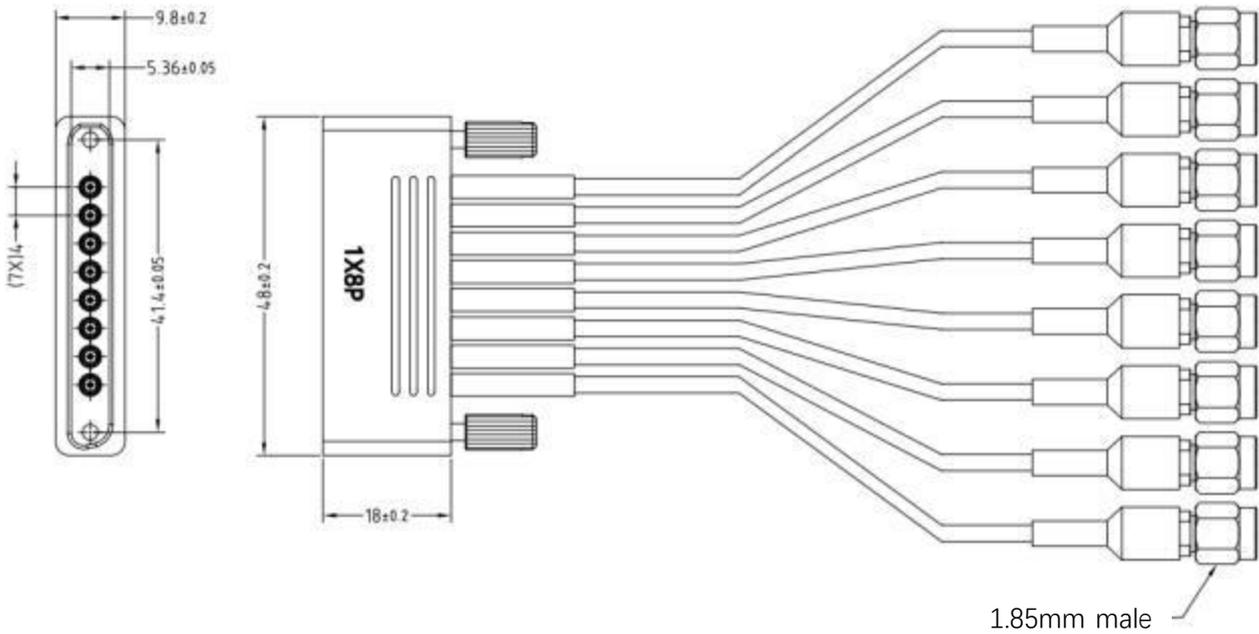
THREADED CLAMPING PLATE	BRASS	NICKEL PLATE
GROUNDING PLATE	BRASS	NICKEL PLATE
TRANSITION BLOCK	BRASS	NICKEL PLATE
CONN. BODY	STAINLESS STEEL	PASSIVATED
DIELECTRIC	ULTEM& PTFE	NATURAL
CENTER CONTACTS	BECU	GOLD
DESCRIPTION	MATERIAL	FINISH

Technical Data Sheet

Description	MPMseries, Cable assembly, 1x8P, 1.85mm (V) male to SMPM(GPPO)Female	Partnumber	1X8P-MPM93-P11-67G-XXXXMM
--------------------	--	-------------------	---------------------------

Outline Drawing

- All dimensions are in mm; tolerances according to ISO2768 m-H
XXXX=Length mm



- Notes:
 - all specifications are subject to change without notice at anytime
 - customer outline drawing for reference only

Order Information

P/N	Description
1X8P-MPM93-P11-67G-300MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 30cm
1X8P-MPM93-P11-67G-600MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 60cm
1X8P-MPM93-P11-67G-800MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 80cm
1X8P-MPM93-P11-67G-1000MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 100cm
1X8P-MPM93-P11-67G-1200MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 120cm
1X8P-MPM93-P11-67G-1500MM	Cable assembly, 1x8P, 1.85mm male to SMPM Female, 67GHz, Length 150cm

General Configuration

Connector 1Type(leftside)	SMPM(GPPO)Female/copper, Goldplating
Connector 2Type(rightside)	1.85mm(V)Male/Stainless steel, Passivated
Cable Type	Low Loss Stable Phase TestCable
Cable Diameter	2.3 mm,blue
Armor	None

Electrical Characteristics

Impedance	50Ohm
Frequency Range	DCto 67GHz
Return loss	$\geq 16\text{dB}@DC\text{to } 67\text{GHz}$
Insertion loss	$\leq 7.5/1000*L+0.8\text{dB}$, DCto 67GHz
Dielectric withstand Voltage	1000Vrms
Amplitude Stability	$\pm 0.1\text{dBMax}$.
Mechanical Phase Stability	$\pm 15\text{Degree Max.}$, DCto 40GHz
Different Cable Phase Match	$\pm 3\text{ps}$ Phase Match

Mechanical Characteristics

Mating cycles	≥ 500
Minimum bending radius	16 mm

Environmental Characteristics

Temperature range	-55°Cto +85°C
Corrosion	IEC60068-2-14, testna, -55°C to +85°C
Change oftemperature	Salts praytestacc. to MIL-STD-202, method101, condition B
Vibration	IEC60068-2-6, onrequest
Mechanicalshock	MIL-STD-202, method213, condition I, 100g/6 ms
RoHS	Compliant

Package information

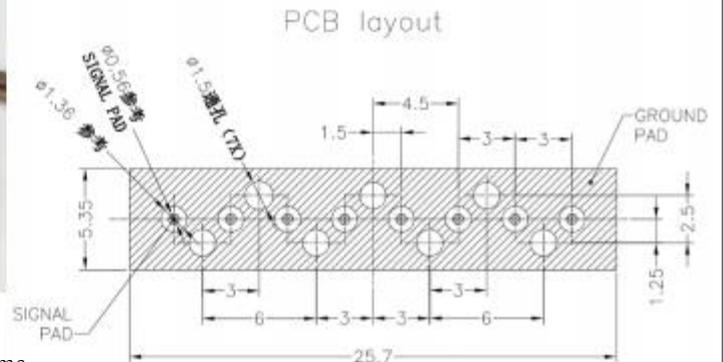
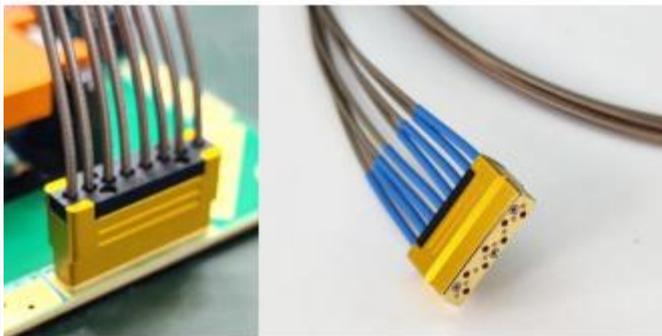
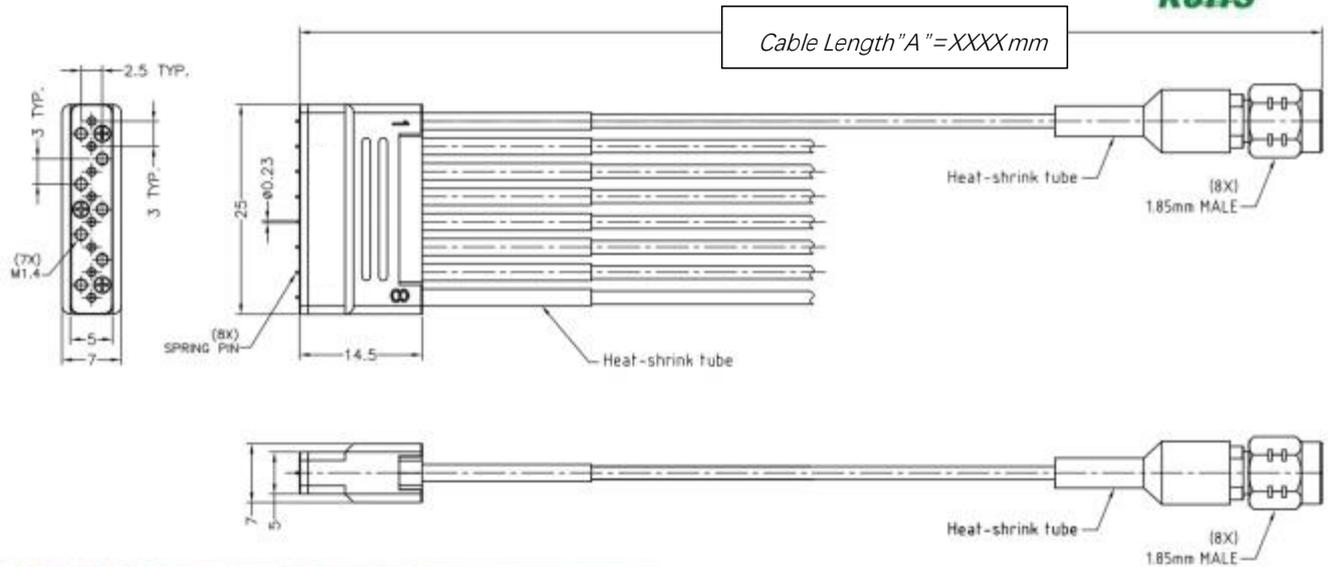
Cable assemblypackage	One cable assembly per bagwiththe S-Parameters testreportp-- aper
Ship package	Box

Technical Data Sheet

Description	MSPseries, Cable assembly, 1x8P, 1.85m male to MSP spring pin, 67GHZ	Part number	1x8P-MSP98-P11-67G-XXXXMM
--------------------	--	--------------------	---------------------------

Outline Drawing

- All dimensions are in mm; tolerances according to ISO2768 m-H
- Cable Length "A" = XXXX mm



- Notes:
 1. all specifications are subject to change without notice at anytime
 2. customer outline drawing for reference only

Order Information

P/N	Description
1x8P-MSP98-P11-67G-200MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 20cm
1x8P-MSP98-P11-67G-300MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 30cm
1x8P-MSP98-P11-67G-500MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 50cm
1x8P-MSP98-P11-67G-600MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 60cm
1x8P-MSP98-P11-67G-800MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 80cm
1x8P-MSP98-P11-67G-1000MM	Cable assembly, 1x8P, 1.85mm male to MSP spring pin, 67GHZ, Length 100cm

General Configuration

Connector 1Type(leftside)	MSPspring pin/copper, Goldplating
Connector 2Type(rightside)	1.85mm Male/copper, Goldplating &Stainless steel, Passivated
Cable Type	Low Loss Stable Phase TestCable
Cable Diameter	1.5 mm
Armor	None

Electrical Characteristics

Impedance	50Ohm
Frequency Range	DCto 67GHz
Return loss	$\geq 15\text{dB}@DC\text{to }67\text{GHz}$
Insertion loss	$\leq 10.2/1000*A+0.6\text{dB}$, DCto 67GHz
Dielectric withstand Voltage	335Vrms
Amplitude Stability	$\pm 0.20\text{dBMax}$.
Mechanical Phase Stability	$\pm 15\text{Degree Max.}$, DCto 67GHz
Different Cable Phase Match	$\pm 3\text{ps}$ or customer request

Mechanical Characteristics

Mating cycles	≥ 500
Minimum bending radius	24mm

Environmental Characteristics

Temperature range	-55°Cto +85°C
Corrosion	IEC60068-2-14, test na, -55°C to +85°C
Change oftemperature	Salt spraytestacc. to MIL-STD-202, method101, condition B
Vibration	IEC60068-2-6, on request
Mechanicalshock	MIL-STD-202, method213, condition I, 100g/6 ms
RoHS	Compliant

Package information

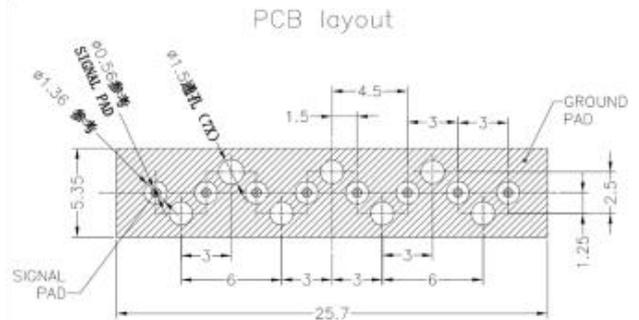
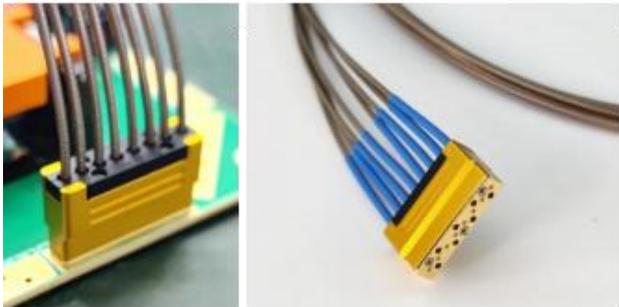
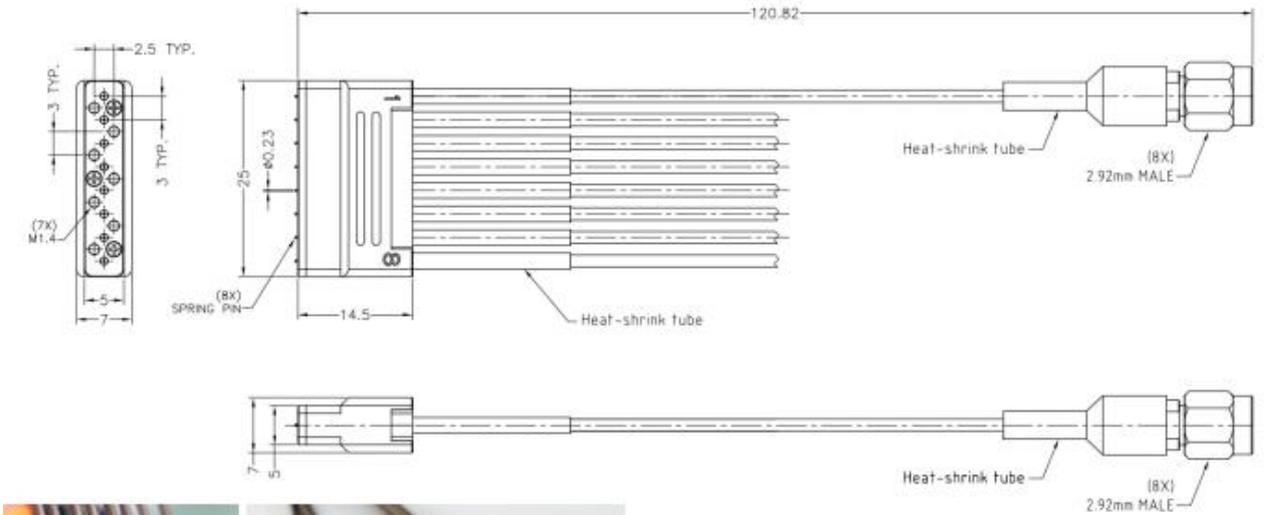
Cable assemblypackage	One cable assembly per bagwith the S-Parameters testreportpaper
Ship package	Box

Technical Data Sheet

Description	MSP series, Cable assembly, 1x8P, SMA male to MSP spring pin, 40GHZ	Part number	1x8P-MSP98-P31-40G-XXXXMM
--------------------	---	--------------------	---------------------------

Outline Drawing

- All dimensions are in mm; tolerances according to ISO2768 m-H
- Cable Length "A" = XXXX mm



- Notes.
1. All specifications are subject to change without notice at any time
 2. Customer outline drawing for reference only

Order Information

P/N	Description
1x8P-MSP98-P31-40G-500MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 50cm
1x8P-MSP98-P31-40G-600MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 60cm
1x8P-MSP98-P31-40G-800MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 80cm
1x8P-MSP98-P31-40G-1000MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 100cm
1x8P-MSP98-P31-40G-1200MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 120m
1x8P-MSP98-P31-40G-1500MM	Cable assembly, 1x8P, 2.92mm male to MSP spring pin, 40GHZ, Length 150cm

Technical Data Sheet

General Configuration

Connector 1Type(leftside)	MSPspring pin/copper, Goldplating
Connector 2Type(rightside)	SMA Male/copper, Goldplating&Stainless steel, Passivated
Cable Type	Low Loss Stable Phase Test Cable
Cable Diameter	1.5 mm
Armor	None

Electrical Characteristics

Impedance	50 Ohm
Frequency Range	DC to 40GHz
Return loss	$\geq 20\text{dB}$ @DC to 40GHz
Insertion loss	$\leq 7.6/1000 \cdot A + 0.5\text{dB}$, DC to 40GHz
Dielectric withstand Voltage	335Vrms
Amplitude Stability	$\pm 0.15\text{dB}$ Max.
Mechanical Phase Stability	$\pm 10\text{Degree}$ Max. , DC to 40GHz
Different Cable Phase Match	$\pm 2\text{ps}$

Mechanical Characteristics

Mating cycles	≥ 500
Minimum bending radius	8 mm

Environmental Characteristics

Temperature range	-55°C to +85°C
Corrosion	IEC60068-2-14, testna, -55°C to +85°C
Change of temperature	Saltspraytestacc. to MIL-STD-202, method101, condition B
Vibration	IEC60068-2-6, onrequest
Mechanicalshock	MIL-STD-202, method213, condition I, 100g/6 ms
RoHS	Compliant

Package information

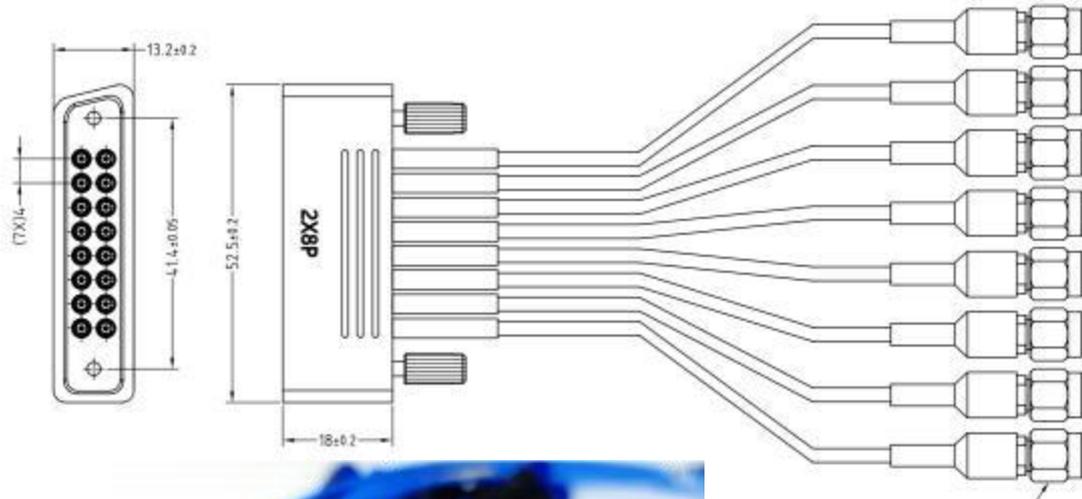
Cable assembly package	One cable assembly per bag with the S-Parameters test report paper
Shippackage	Box

Technical Data Sheet

Description	MPMseries, Cable assembly, 2x8P, 1.85mm male to SMPM(GPPO)Female	Part number	2X8P-MPM93-P11-67G-XXXXMM
--------------------	--	--------------------	---------------------------

Outline Drawing

- All dimensions are in mm; tolerances according to ISO2768 m - H



- Notes:

- all specifications are subject to change without notice at any time
- customer outline drawing for reference only

Order Information

P/N	Description
2X8P-MPM93-P11-67G-300MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 30cm
2X8P-MPM93-P11-67G -500MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 50cm
2X8P-MPM93-P11-67G -600MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 60cm
2X8P-MPM93-P11-67G -800MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 80cm

2X8P-MPM93-P11-67G -1000MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 100cm
2X8P-MPM93-P11-67G -1200MM	Cable assembly, 2x8P, 1.85mm male to SMPM Female, 67GHz, Length 120cm

General Configuration

Connector 1 Type (leftside)	SMPM(GPPO)Female/copper, Goldplating
Connector 2 Type (rightside)	1.85mm Male/Stainlesssteel, Passivated
Cable Type	Low Loss Stable Phase Test Cable
Cable Diameter	2.3mm, blue
Armor	None

Electrical Characteristics

Impedance	50 Ohm
Frequency Range	DC to 67 GHz
Return loss	≥ 14 dB @ DC to 67 GHz
Insertion loss	$\leq 6.0/1000 * L + 1.2$ dB, DC to 67 GHz
Dielectric withstand Voltage	1000 Vrms
Amplitude Stability	± 0.1 dB Max.
Mechanical Phase Stability	± 15 Degree Max. , DC to 67 GHz
Different Cable Phase Match	± 2 ps

Mechanical Characteristics

Mating cycles	≥ 500
Minimum bending radius	12 mm

Environmental Characteristics

Temperature range	-55°C to +85°C
Corrosion	IEC60068-2-14, test na, -55°C to +85°C
Change of temperature	Saltspray test acc. to MIL-STD-202, method 101, condition B
Vibration	IEC60068-2-6, on request
Mechanical shock	MIL-STD-202, method 213, condition I, 100g/6ms
RoHS	Compliant

Package information

Cable assembly package	One cable assembly per bag with the S-Parameters test report paper
Ship package	Box



ТЕСТОВОЕ РЕШЕНИЕ

