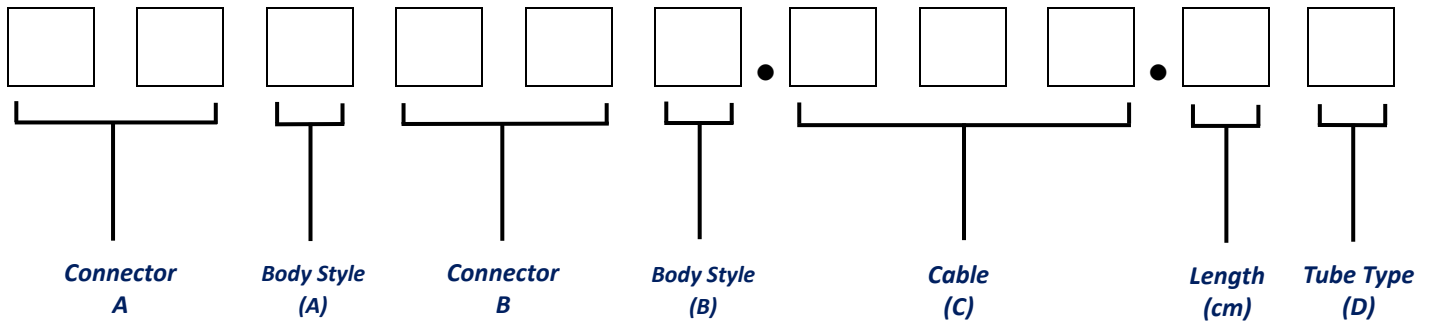


STANDARD COAXIAL CABLE ASSEMBLIES

MVE standard coaxial cable can provide not only inexpensive cost but also a lot of variety models to meet your needs. The overall diameter of flexible series is including, 2.59mm(RG316) , 2.93mm(RG316 Double Shielding), 0.085inch(F085/SS405), 0.141inch(F141/SS402); Semi-flex series are including: 0.085 inch(SF085/RG405), 0.141inch(SF141/RG402); Semi-rigid series are including: 0.034inch(SR034), 0.047 inch(SR047);0.085 inch(SR085); 0.141inch (SR141). In the meantime, MVE can offer customized services and support the optimization of cable assembly. With MVE service, customize product to let user easy to install. MVE is aimed to provide a wide range of performance coaxial cable for various demands.



No	Conn. A/B
10	1.85mm-M
11	1.85mm-F
12	2.4mm-M
13	2.4mm-F
14	2.9mm-M
15	2.9mm-F
16	3.5mm-M
17	3.5mm-F
18	APC7-M
19	APC7-F
20	BNC-M
21	BNC-F
22	MCX-M
23	MCX-F
24	MMCX-M
25	MMCX-F
26	N-M
27	N-F
28	SMA-M
29	SMA-F
30	SSMA-M
31	SSMA-F
32	TNC-M
33	TNC-F
34	MHF202781-M

No	Conn. A/B
35	75ΩBNC-M
36	75ΩBNC -F
37	MHF20311-M
38	75ΩF-M
39	75ΩF-F
40	MHF20367-M
41	MHF20448-M
42	75ΩN-M
43	75ΩN-F
44	75ΩSMB-M
45	75ΩSMB-F
46	MS147-M
47	MM8430-M
48	SMP-F
49	MHF20428-M
50	SMB-F
51	SMB-M
52	UHF-F
53	UHF-M
54	Fakra SMB-M
55	Fakra SMB-F
56	MM8030-M
57	7/16DIN-M
58	MS180-M
59	MS162-M

No	Conn. A/B
60	CRC9-M
61	MS162-M
62	SSMCX-M
63	SMPM-M
64	FAKRA-M
65	TS9A-M
66	MS156C-M
67	MHF20567-M
68	MS156-M
69	MM8930-M
No	Body Style
0	Standard
1	Reverse
2	Right angle
3	Quick
4	RP-Right angle
5	RP-Quick
6	Bulkhead
7	Opposite Direction R/A
8	2Hole Flange
9	RP-Bulkhead
A	Quick/No hex
B	4Hole Flange

No	Coaxial Cables ©
6	RG-6(U)
58	RG58(U)
59	RG59
081	Mini-coaxial 0.81mm
113	Mini-coaxial 1.13mm
137	Mini-coaxial 1.37mm
142	RG-142
174	RG-174
178	RG-178
214	RG-214
316	RG-316
316D	RG-316 Doubt Shield
400	RG-400
F085	SS405
F141	SS402
SF085	RG405
SF141	RG402
SF085JB	RG405(Blue Jacket)
SF141JB	RG402(Blue Jacket)
SPF085	SFL405
SPF141	SFL402
SR034	Semi-rigid 034
SR047	Semi-rigid 047
SR085	Semi-rigid RG405
SR141	Semi-rigid RG402
200LL	200LL,LMR200
400LL	400L,CFD400,LMR400
600LL	600LL,LMR600
2CS	AWG28 x2C
3CS	AWG28 x3C

Code(D)	A	B	C
Tube Type	Brass Tubing	Double Heat-shrink Tubing	Rigid Glued Tubing

COAXIAL CABLE

MCBL-SPF085.50

Features

- ✓ Frequency up to 18GHz
- ✓ Replace to SFL405 Cables
- ✓ Excellent shielding effect greater than 100dB
- ✓ Fully flexible for ease of installation

Specifications

CONSTRUCTION		
ITEM	MATERIAL	DIAMETER
CENTER CONDUCTOR	Sliver Plated Copper Clad Steel Wire	0.511±0.03mm
INSULATION	Solid PTFE	1.60±0.13mm
INNER SHIELD	Flat Silver Plated Copper Wrap	1.80±0.13mm
OUTER SHIELD	Round Silver Plated Copper	2.18±0.13mm
JACKET	Blue Polyurethane	3.00 +0.10mm -0.15mm
ELECTRICAL DATA		
ITEM	SPECIFICATION	
CUT-OFF FREQUENCY	18GHz	
IMPEDANCE	50±2Ohms	
CAPACITANCE	95 pF/m	
BENDIGN RADIU	16mm	
TEST VOLTAGE	30000Vrms @1MIN.	
CONTINUOUS WORKING VOLTAGE	1200Vrms MAX.	
SHIELDING EFFECT	-100 dB (MAX.)	
VELOCITY OF PROPAGATION	69.5 %	
WEIGHT	19.1Kg/Km	
TEMPERTURE	-40℃ ~ +80℃	
MAXIMUM ATTENUATION		
FREQUENCY	ATTENUATION dB/M	
1000 MHz	0.70	
3000MHz	1.28	
5000MHz	1.71	
10000MHz	2.62	
18000MHz	3.61	

NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY



Cable Assembly Part Number

MVE PART NUMBER	CONNECTOR 1	CONNECTOR 2	XX- LENGTH (cm)	FREQUENCY (GHz)	VSWR (TYP.)
220280.SPF085.XX	MCX Male S/T	SMA Male S/T	15, 30, 50, 60, 90, 100	6.0	1.40
240240.SPF085.XX	MMCX Male S/T	MMCX Male S/T	15, 30, 50, 60, 90, 100	6.0	1.30
240280.SPF085.XX	MMCX Male S/T	SMA Male S/T	15, 30, 50, 60, 90, 100	6.0	1.30
242280.SPF085.XX	MMCX Male R/A	SMA Male S/T	15, 30, 50, 60, 90, 100	6.0	1.30
242280.SPF085.XX-8G	MMCX Male R/A	SMA Male S/T	15, 30, 50, 60, 90, 100	8.0	1.45
242290.SPF085.XX	MMCX Male R/A	SMA Female	15, 30, 50, 60, 90, 100	6.0	1.3
280280.SPF085.XX	SMA Male S/T	SMA Male S/T	30, 45, 50, 60, 90, 100	10.0	1.30
280280.SPF085.XX(H)	SMA Male S/T	SMA Male S/T	30, 45, 50, 60, 90, 100	18.0	1.35
280280.SPF085.XX(H3)	SMA Male S/T	SMA Male S/T	30, 45, 50, 60, 90, 100	18.0	1.40
28028A.SPF085.XX	SMA Male S/T	SMA Male(Quick-4.5)	15, 30, 50, 60, 90, 100	10.0	1.35
280280A.SPF085.XX	SMA Male S/T	SMA Male(Quick-8.4)	15, 30, 50, 60, 90, 100	10.0	1.35
280281A.SPF085.XX	SMA Male S/T	SMA Male Reverse	30, 45, 50, 60, 90, 100	10.0	1.35
280282.SPF085.XX	SMA Male S/T	SMA Male R/A	30, 45, 50, 60, 90, 100	6.0	1.35
280282.SPF085.XX(H3)	SMA Male S/T	SMA Male R/A	30, 45, 50, 60, 90, 100	8.0	1.40
280290.SPF085.XX	SMA Male S/T	SMA Female S/T	30, 45, 50, 60, 90, 100	10.0	1.35
280A290.SPF085.XX	SMA Male(Quick-8.4)	SMA Female S/T	30, 45, 50, 60, 90, 100	10.0	1.35
282282.SPF085.XX	SMA Male R/A	SMA Male R/A	30, 45, 50, 60, 90, 100	6.0	1.30
28A290.SPF085.XX	SMA Male(Quick-4.5)	SMA Female S/T	30, 45, 50, 60, 90, 100	10.0	1.35
480280.SPF085.XX	SMP Female S/T	SMA Male S/T	15, 30, 50, 60, 90, 100	10.0	1.40

*Definition of Length: “ XX ”

Length ≤ 30 CM, the length cable is referring to exclude two terminal length of connector.

Length > 30 CM, the length cable is referring to include two terminal length of connector.

**Definition of Tolerance

Length ≤ 10 cm: ± 0.5 cm , Length ≤ 30 cm: ± 1.0 cm , Length ≤ 50 cm: ± 2.0 cm ,

Length ≤ 100 cm: ± 2.5 cm, Length > 101 cm: ± 3.0 cm

***Estimate of Cable Assembly loss

Cable assembly loss =Connector loss + Assembly loss + Cable loss

Connector Loss: $0.08 \times \sqrt{\text{Frequency} \times 2}$ (2 connectors)

Assembly Loss : $0.12 \times 2(\text{sides})$

Cable Loss: per cable attenuation (Max.) * Cable length

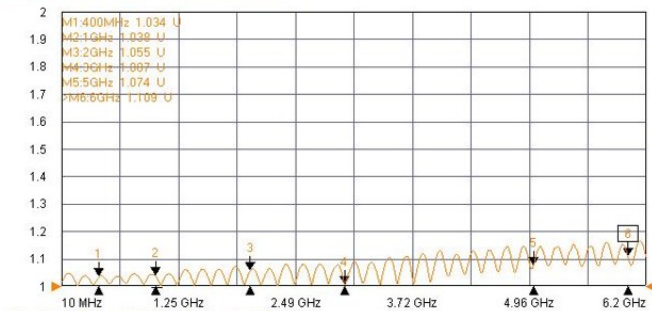
NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

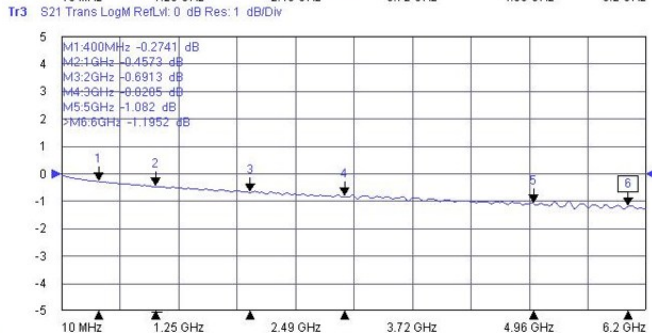
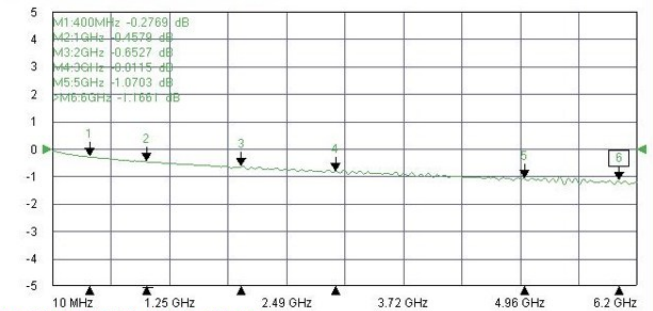
Typical Test Result

PART NUMBER	DESCRIPTION
220280.SPF085.60A	MCX Male To SMA Male, SPF 085 Blue/L:60cm/Brass Tubing

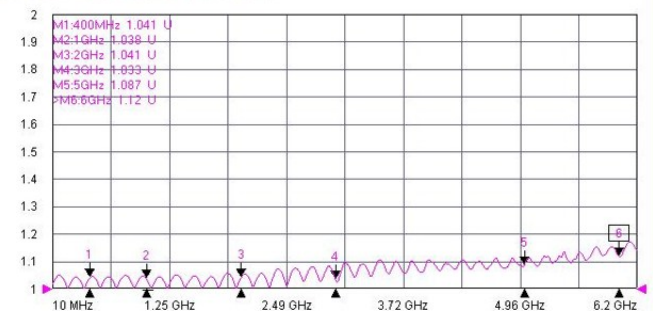
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



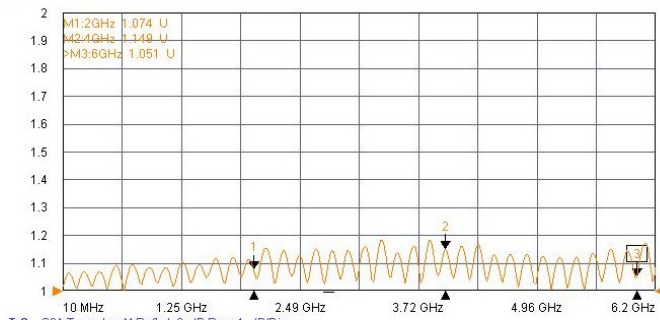
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



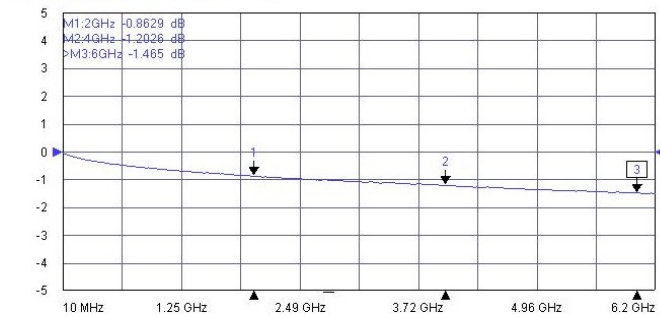
Typical Test Result

PART NUMBER	DESCRIPTION
240240.SPF085.60A	MMCX Male To MMCX Male, SPF085/L:60cm/Brass Tubing

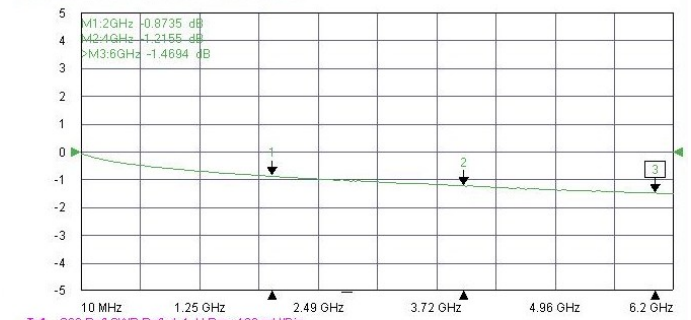
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



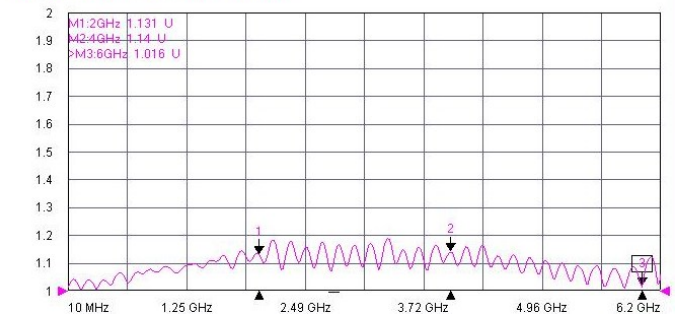
Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div

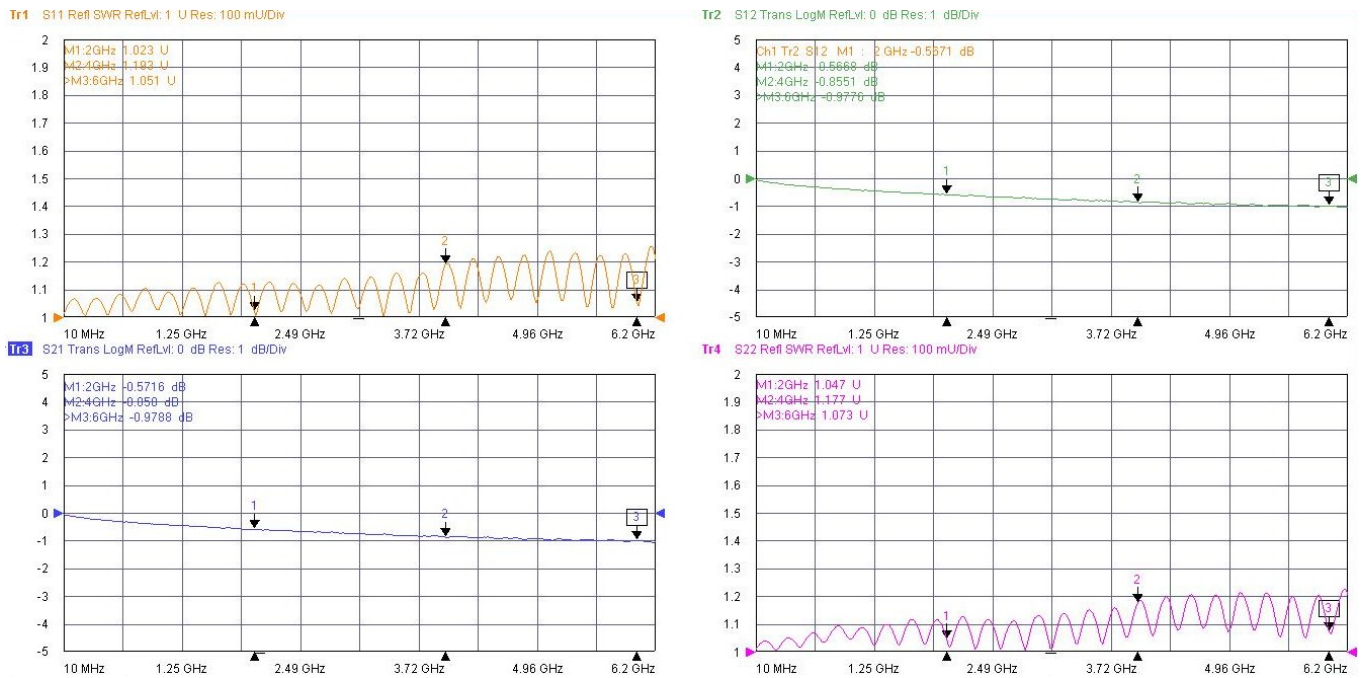


Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Typical Test Result

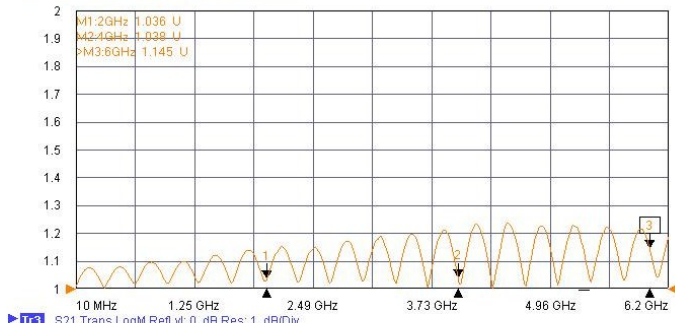
PART NUMBER	DESCRIPTION
240280.SPF085.30A	MMCX Male To SMA Male, SPF085/L:30cm/Brass tubing



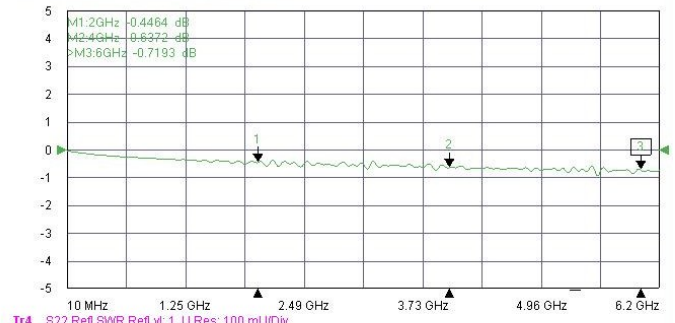
Typical Test Result

PART NUMBER	DESCRIPTION
242280.SPF085.30A	MMCX Male R/A To SMA Male, SPF085/L:30cm/Bass Tubing

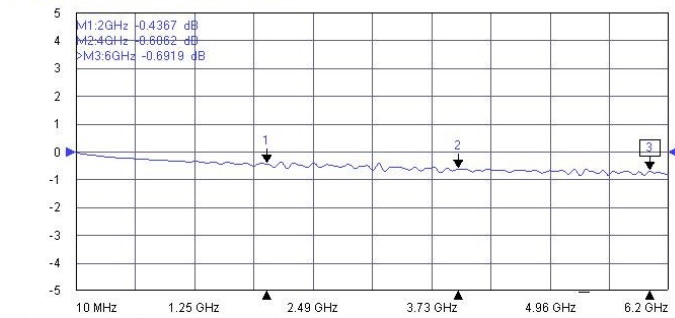
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



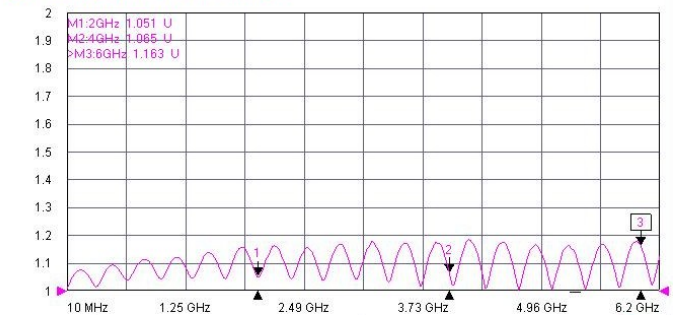
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



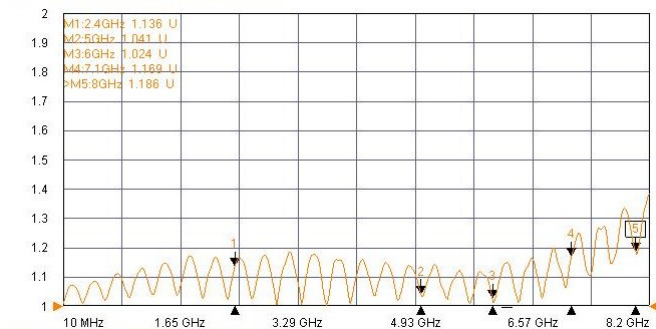
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



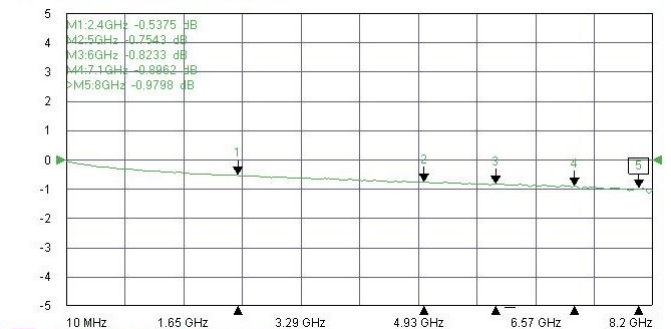
Typical Test Result

PART NUMBER	DESCRIPTION
242280.SPF085.30A-8G	MMCX Male R/A To SMA Male, SPF085/L:30cm/Bass Tubing, DC-8GHz

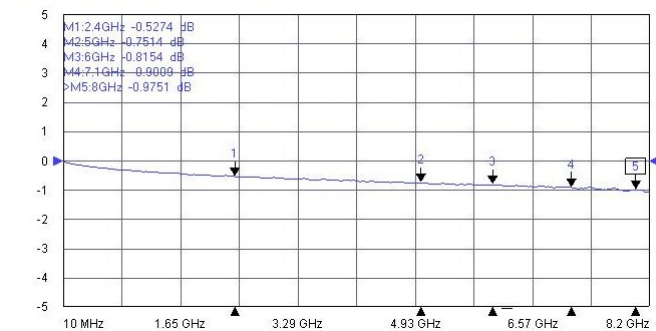
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



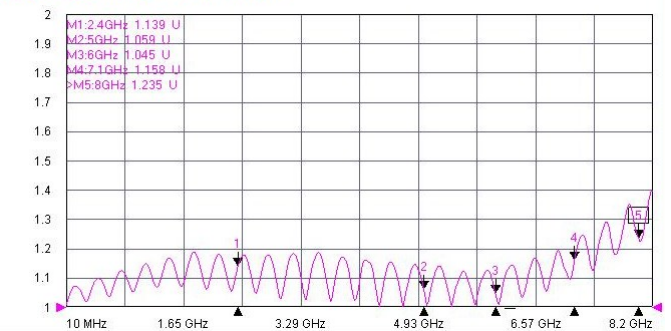
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



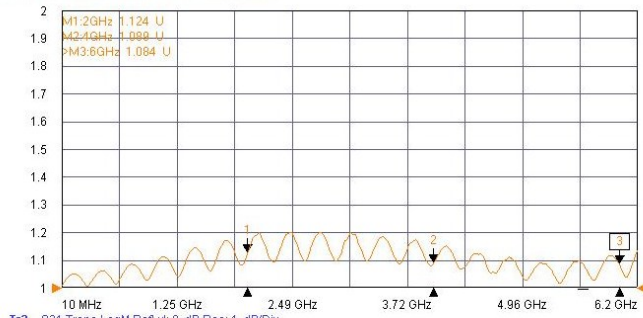
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



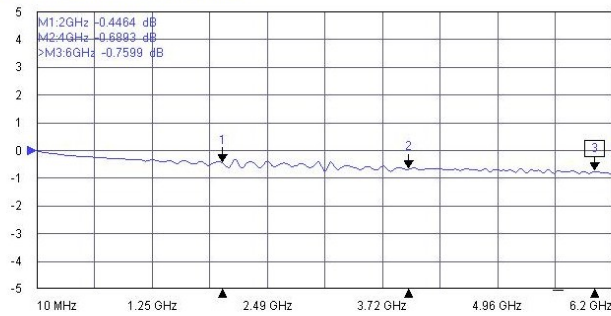
Typical Test Result

PART NUMBER	DESCRIPTION
242290.SPF085.30A	MMCX Male R/A To SMA Female, SPF085/L:30cm/Brass Tubing

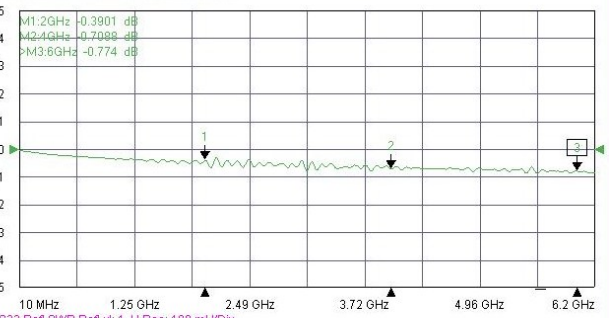
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



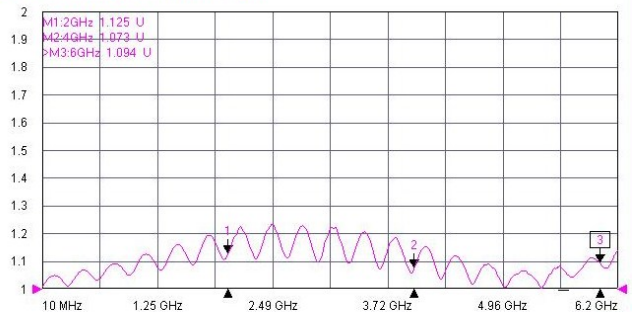
Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div

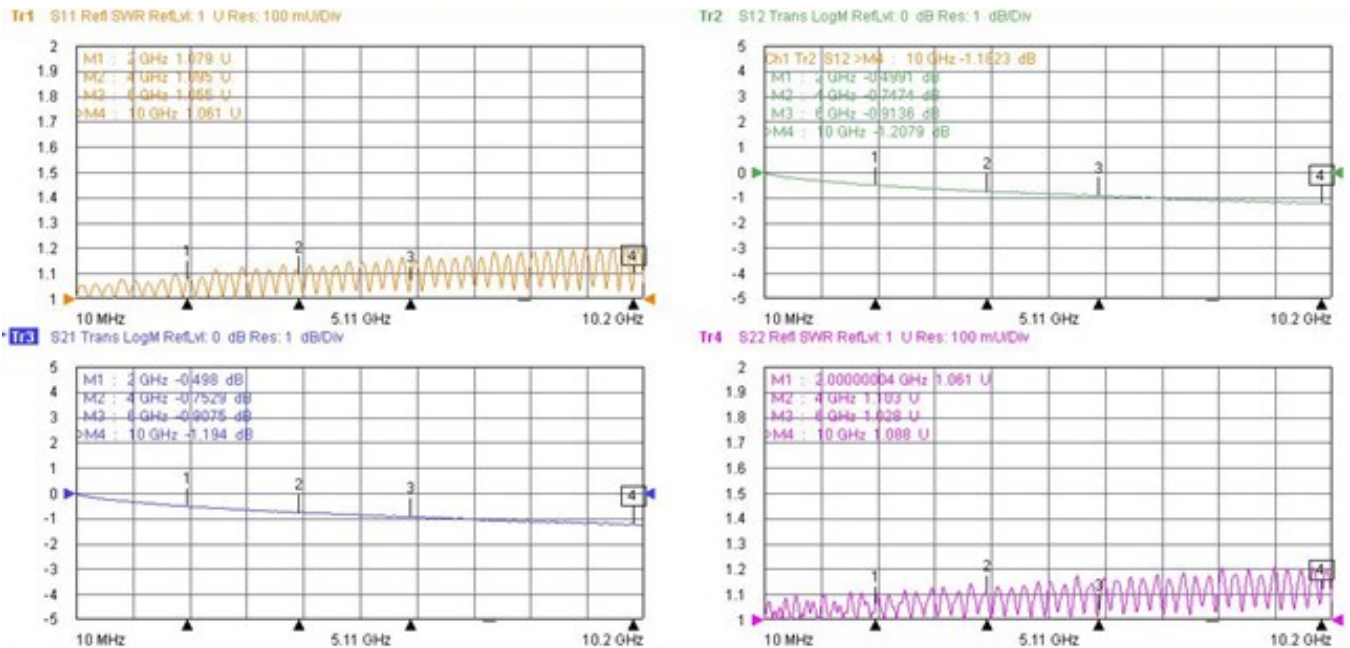


Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Typical Test Result

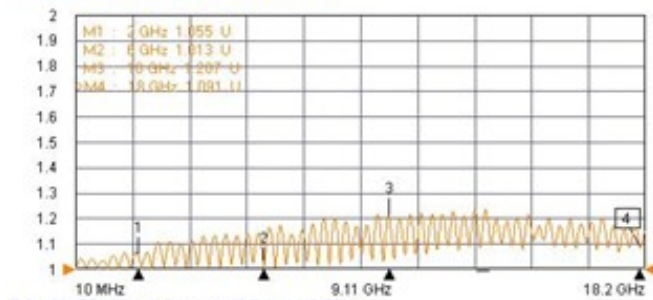
PART NUMBER	DESCRIPTION
280280.SPF085.45C	SMA Male To SMA Male, SPF085/L:45cm/Rigid Glued Tubing



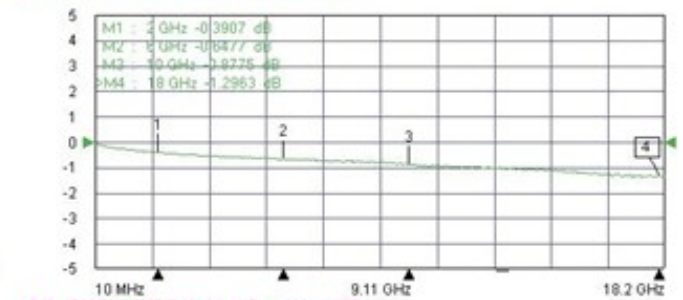
Typical Test Result

PART NUMBER	DESCRIPTION
280280.SPF085.30A(H3)	SMA Male/Stainless To SMA Male/Stainless, SPF085/L:30cm/Brass Tubing

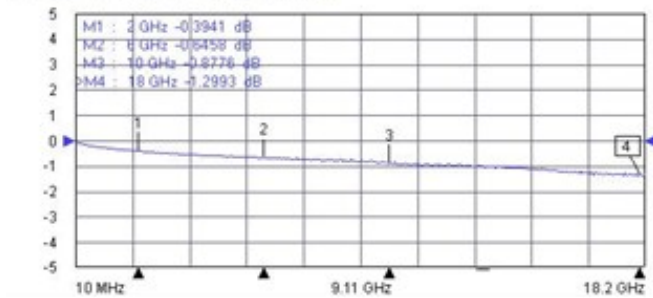
Tr1: S11 Refl SWR RefLvl: 1 U Res: 100 mV/Div



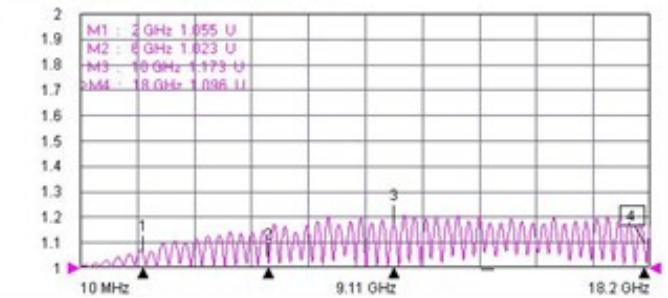
Tr2: S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3: S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr4: S22 Refl SWR RefLvl: 1 U Res: 100 mV/Div



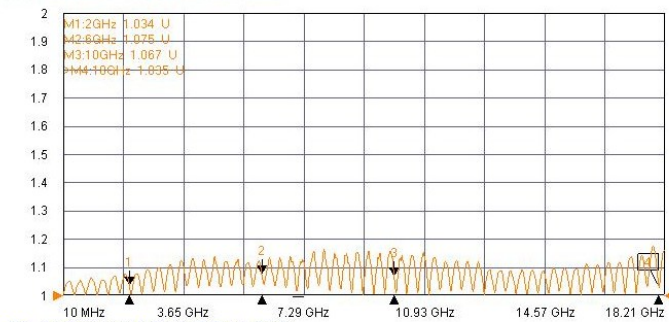
Typical Test Result



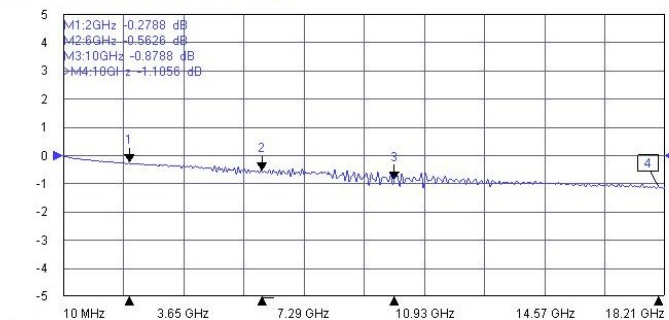
Typical Test Result

PART NUMBER	DESCRIPTION
280280.SPF085.32C(H3)(FC50)	SMA Male To SMA Male, SPF085/L:32cm/Rigid Glued Tubing(with Ferrite core*5/ Pitch: 50mm)

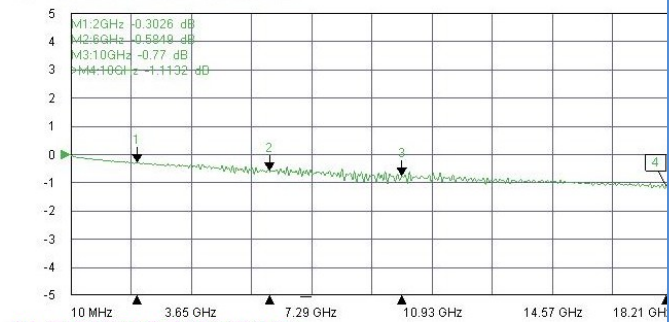
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mV/Div



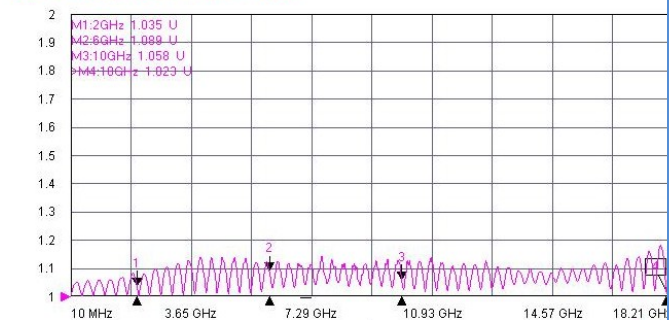
Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



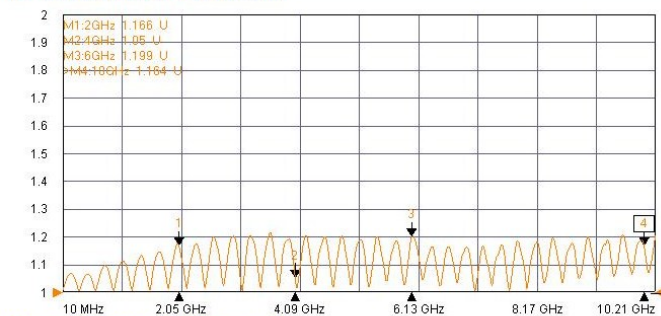
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mV/Div



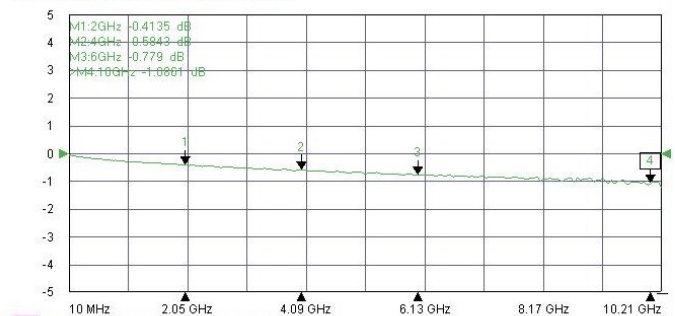
Typical Test Result

PART NUMBER	DESCRIPTION
28028A.SPF085.35E	SMA Male To SMA Male Quick(4.5), SPF085/L:35cm

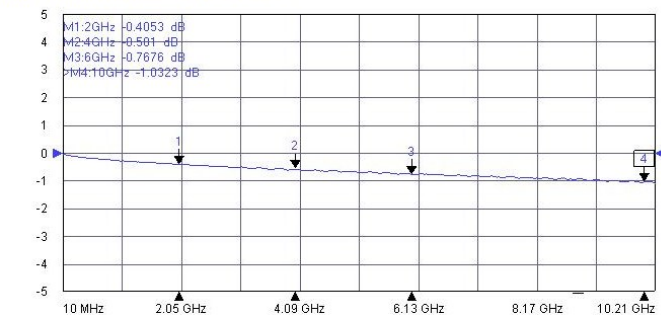
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mV/Div



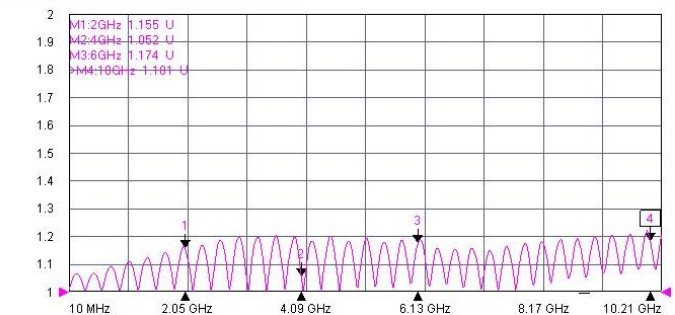
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



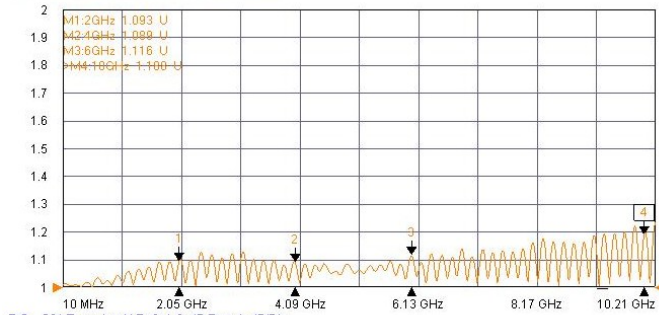
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mV/Div



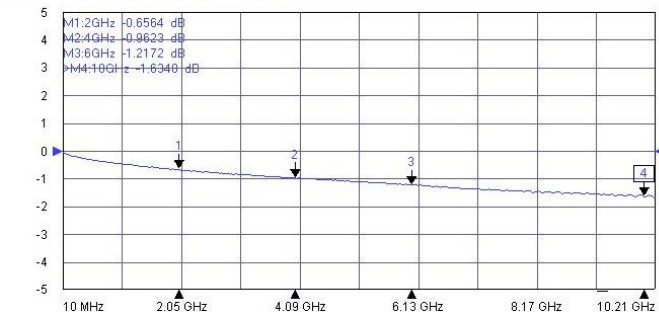
Typical Test Result

PART NUMBER	DESCRIPTION
280280A.SPF085.60A	SMA Male To SMA Male Quick(8.4), SPF085/L:60cm/Brass Tubing

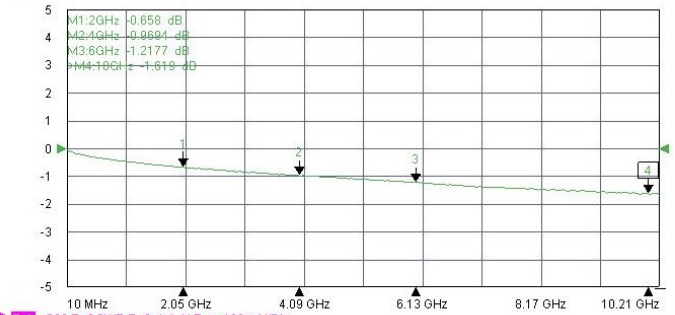
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



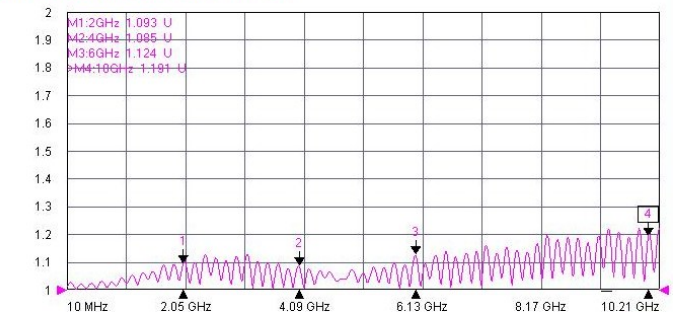
Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



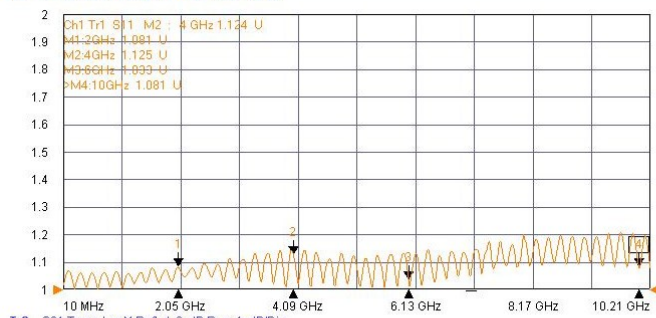
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



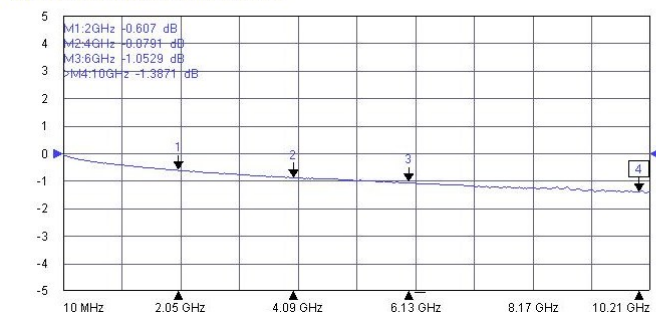
Typical Test Result

PART NUMBER	DESCRIPTION
280281A.SPF085.50A	SMA Male To SMA Male Reverse, Flexible 085 Bule/L:50cm/Brass Tubing(SMA Male Reverse Without Nuts)

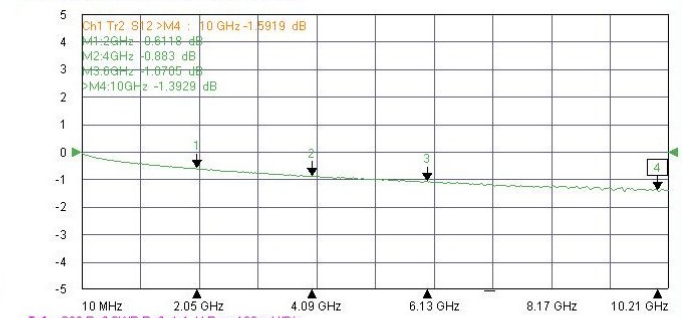
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



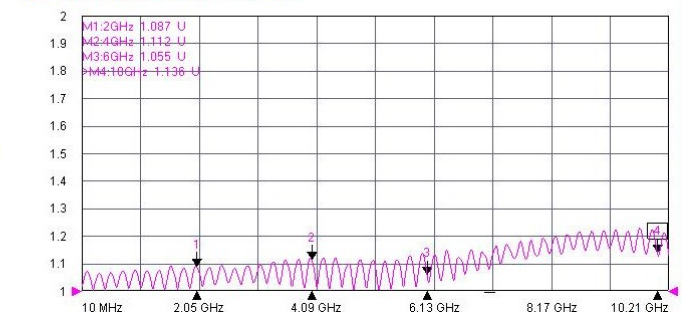
Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div

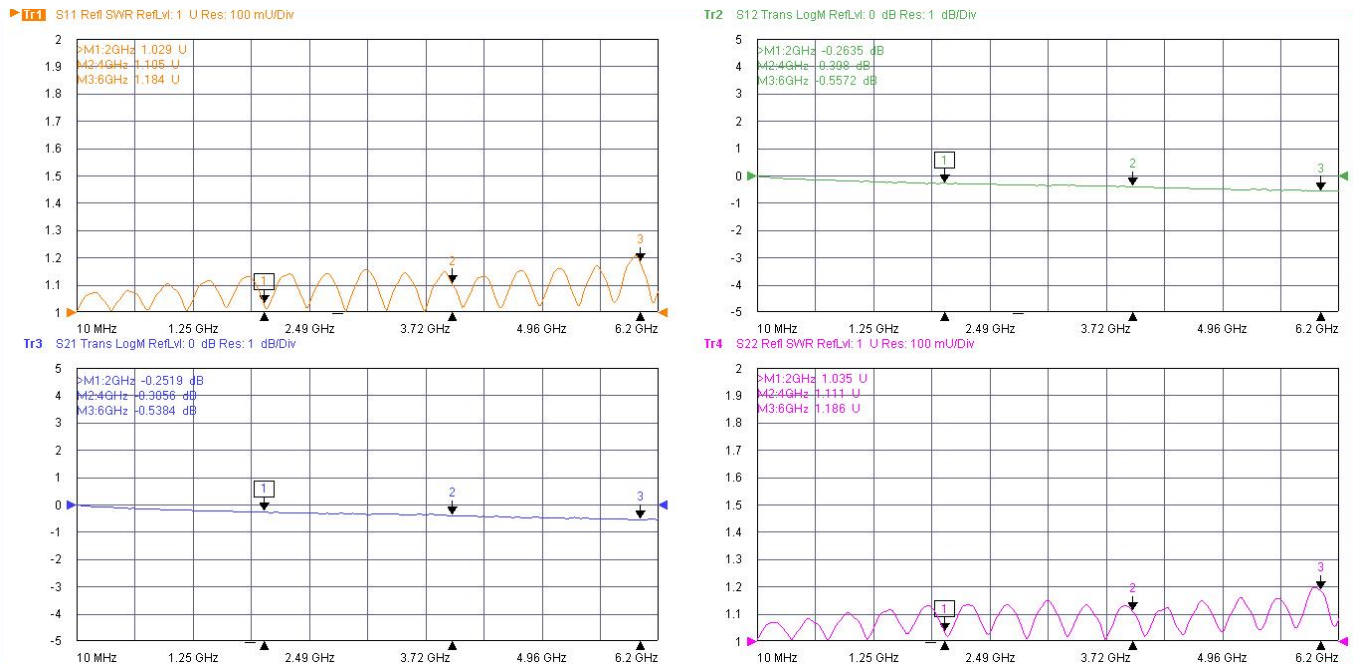


Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Typical Test Result

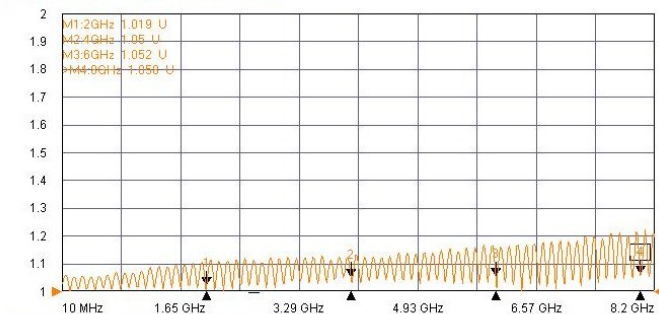
PART NUMBER	DESCRIPTION
280282.SPF085.25A	SMA Male To SMA Male R/A, SPF085/L:25cm/Brass Tubing



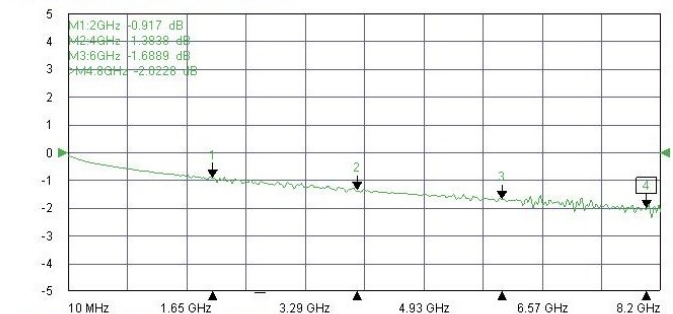
Typical Test Result

PART NUMBER	DESCRIPTION
280282.SPF085.90A(H3)	SMA Male To SMA Male R/A, SPF085/L:90cm /Brass Tubing /DC-8GHz

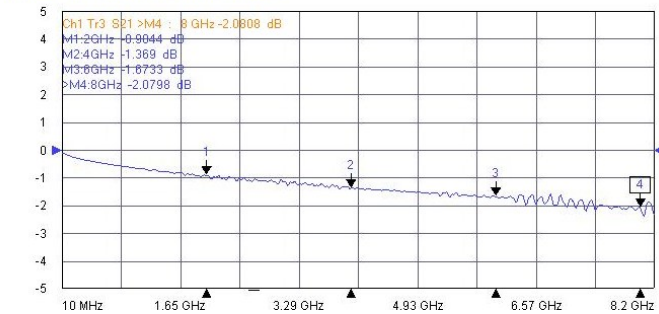
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



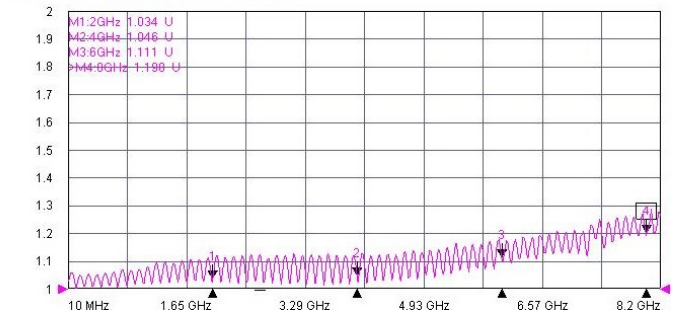
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div

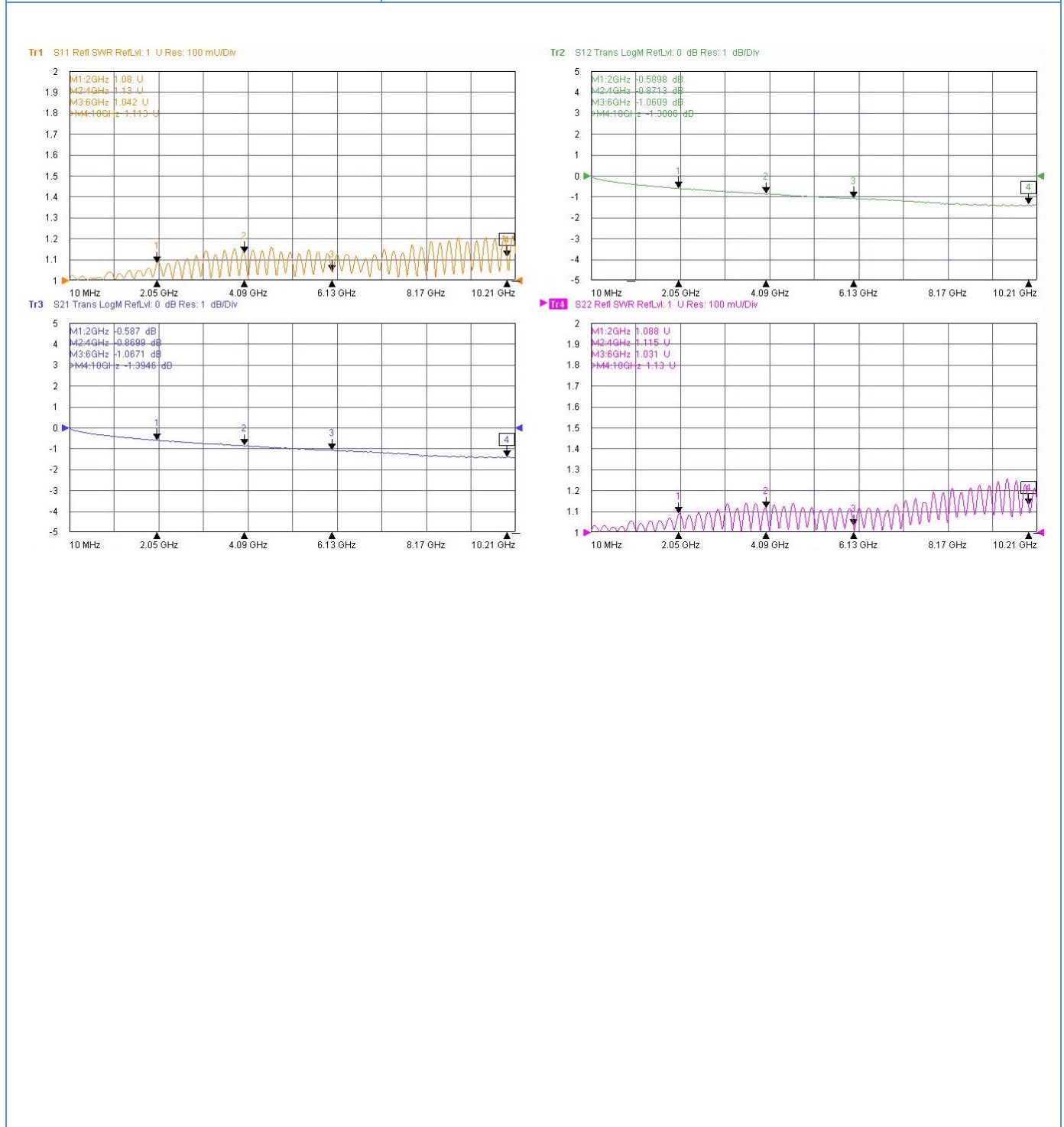


Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Typical Test Result

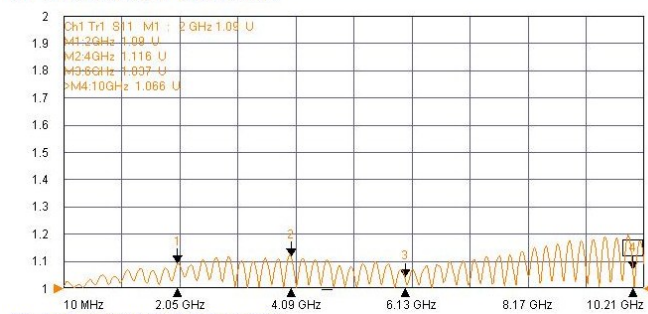
PART NUMBER	DESCRIPTION
280A290.SPF085.50A	SMA Male Quick(8.4) To SMA Female, SPF085/L:50cm/Brass Tubing



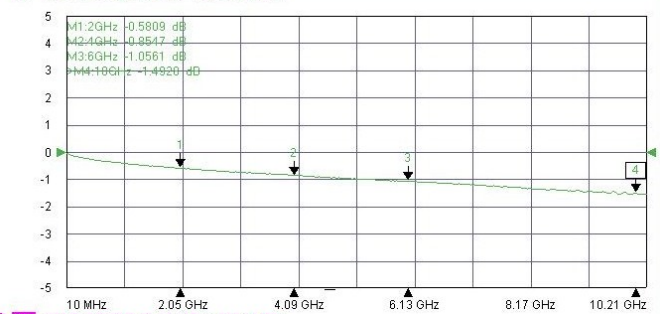
Typical Test Result

PART NUMBER	DESCRIPTION
28A290.SPF085.50A	SMA Male Quick(4.5) To SMA Female, SPF085/L:50cm/Brass Tubing

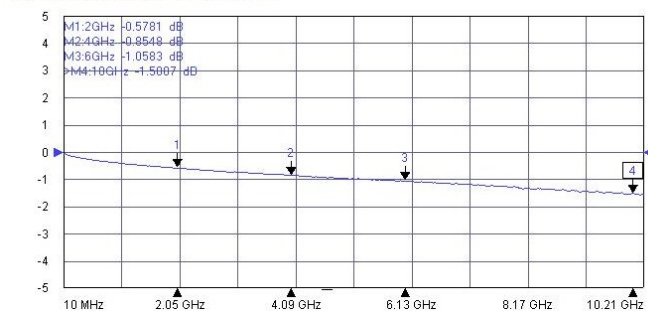
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



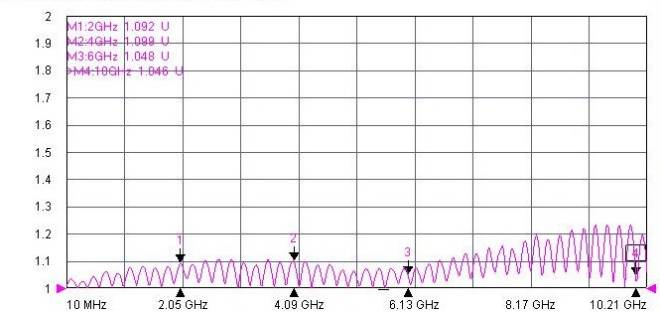
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



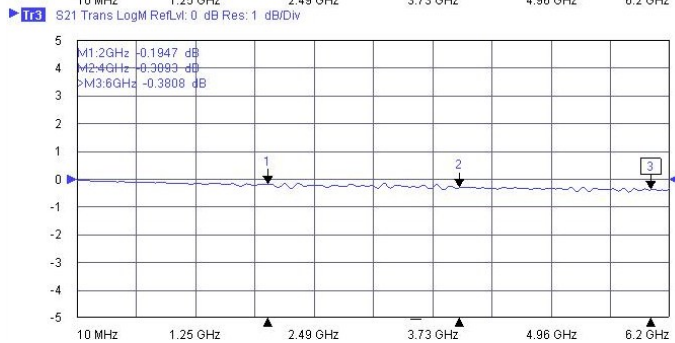
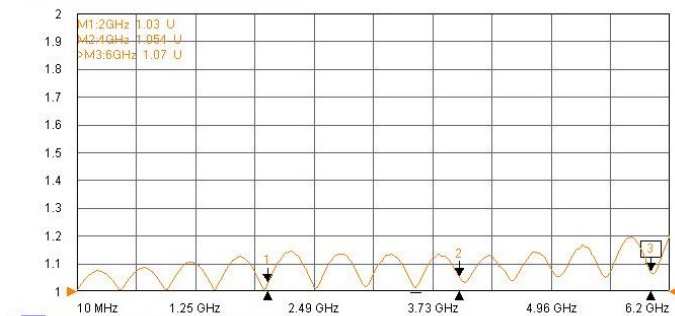
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



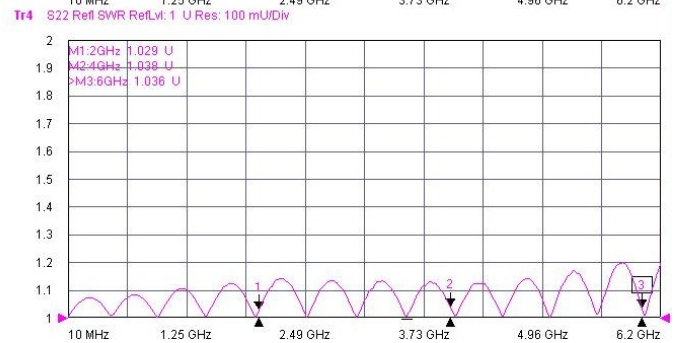
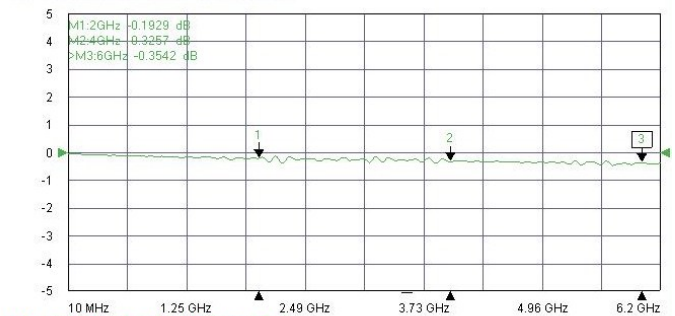
Typical Test Result

PART NUMBER	DESCRIPTION
282282.SPF085.20A	SMA Male R/A To SMA Male R/A, SPF085 /L:20cm/Brass Tubing

Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



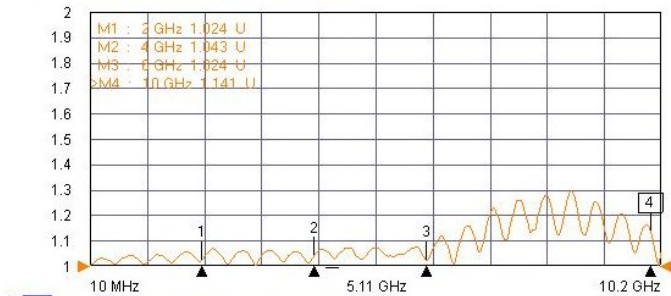
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



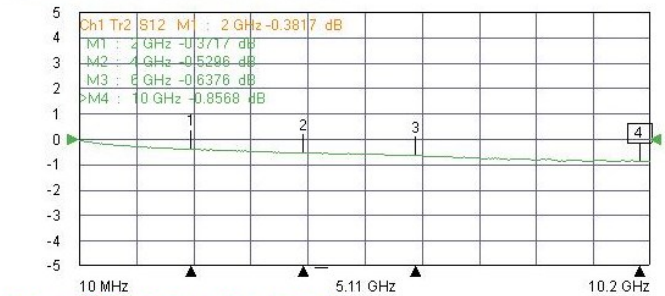
Typical Test Result

PART NUMBER	DESCRIPTION
480280.SPF085.15A	SMP Female To SMA Male, SPF085/L:15cm/Brass Tubing

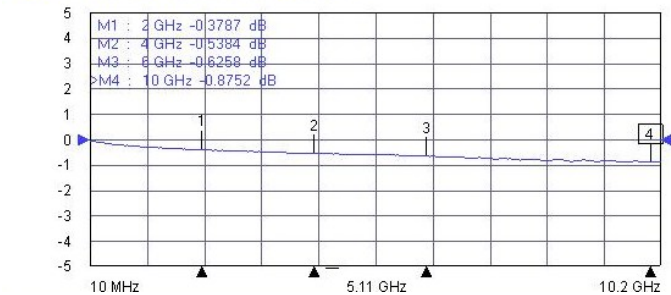
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div

