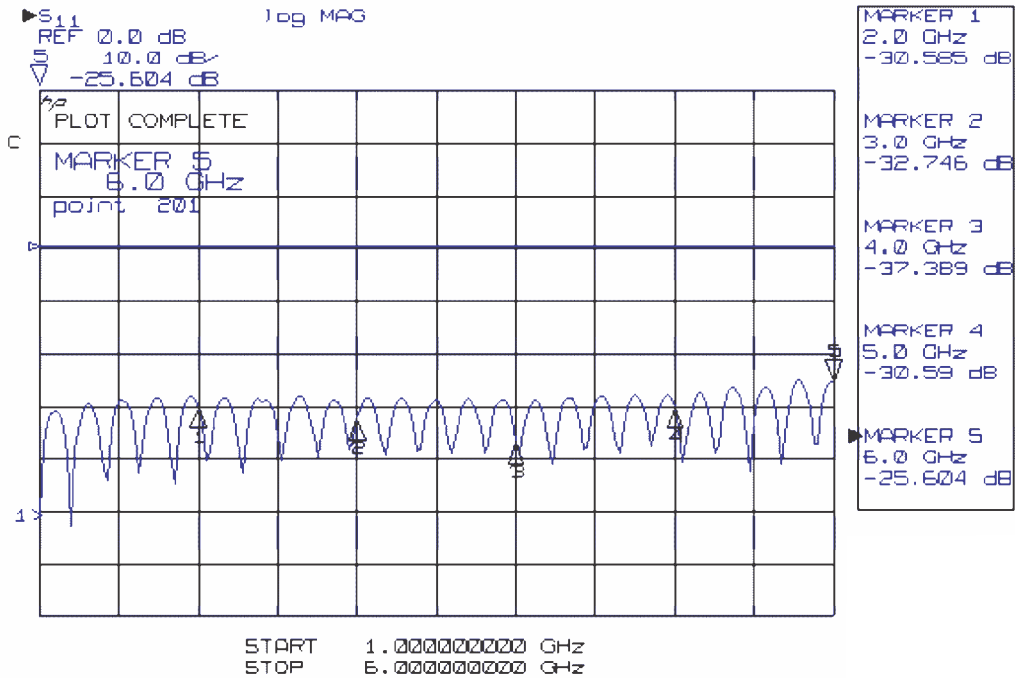
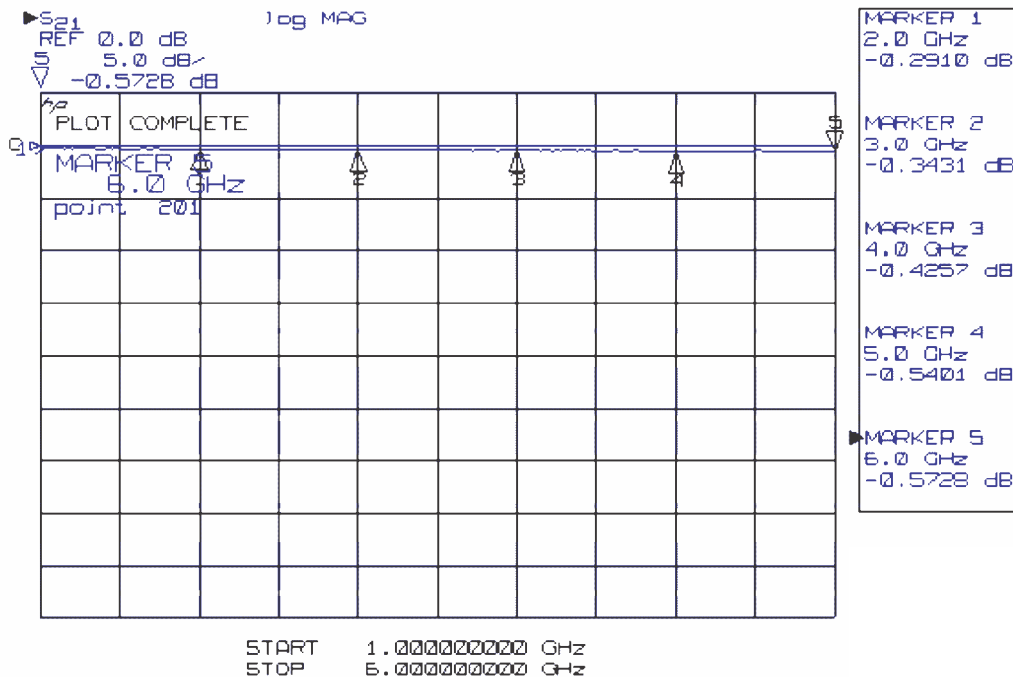


**Return Loss Plot of 0.5 meter Cable Set of RG142
with SMA Male Straight Connector on both ends**



**Insertion Loss Plot of 0.5 meter Cable Set of RG142
with SMA Male Straight Connector on both ends**



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Connector Specifications

Specifications	SMA Connectors	N Connectors	TNC Connectors
Outer Conductor	Brass/Stainless Steel, Gold plated	Brass Alloy, Ni plated	Brass, nickel alloy plated
Center Conductor	Brass, Gold Plated	Brass, Gold Plated	Brass, Gold Plated
Insulation	PTFE	PTFE	PTFE
Gaskets	Silicone rubber	Silicone rubber	Silicone rubber
Impedance	50 Ω	50 Ω	50 Ω
Frequency range	DC- 18 GHz	DC to 11 GHz	DC to 11 GHz
Mating/Unmating	500 operations	500 operations	500 operations
Vibration	As per MIL-STD-202, method 204, test condition D		
Mechanical Shock	As per MIL-STD-202, method 213, test condition I		
Thermal Shock	As per MIL-STD-202, method 107, test condition B		
Humidity	As per MIL-STD-202, method 106		
Temp. Cycle	As per MIL-STD-202, method 102A, test condition C		

Cable Set Ordering Codes

Part Number	Conn 1	Conn 2	Len	Insertion Loss (dB) Typical							
				0.1 GHz	0.4 GHz	1 GHz	1.5 GHz	3 GHz	4 GHz	6 GHz	
SMA(Male) Straight - SMA(Male) Right Angle (DC - 6 GHz)											
RG142-1.0-SMA(M/S)-SMA(M/RA)-M	SMA(M) S	SMA(M) Rt	1 m	0.165	0.32	0.53	0.65	0.96	1.13	1.43	
RG142-2.0-SMA(M/S)-SMA(M/RA)-M	SMA(M) S	SMA(M) Rt	2 m	0.29	0.60	0.98	1.23	1.81	2.13	2.70	
RG142-5.0-SMA(M/S)-SMA(M/RA)-M	SMA(M) S	SMA(M) Rt	5 m	0.71	1.45	2.36	2.95	4.34	5.12	6.49	
RG142-1.0-SMA(M/S)-SMA(M/RA)-F	SMA(M) S	SMA(M) Rt	1 feet	0.06	0.13	0.20	0.25	0.37	0.44	0.55	
RG142-2.0-SMA(M/S)-SMA(M/RA)-F	SMA(M) S	SMA(M) Rt	2 feet	0.11	0.21	0.35	0.43	0.63	0.75	0.93	
SMA(Male) Straight - SMA(Male) Straight (DC - 6 GHz)											
RG142-1.0-SMA(M/S)-SMA(M/S)-M	SMA(M) S	SMA(M) S	1m	0.16	0.32	0.52	0.65	0.96	1.13	1.42	
RG142-2.0-SMA(M/S)-SMA(M/S)-M	SMA(M) S	SMA(M) S	2m	0.29	0.60	0.98	1.22	1.80	2.12	2.69	
RG142-5.0-SMA(M/S)-SMA(M/S)-M	SMA(M) S	SMA(M) S	5m	0.70	1.45	2.36	2.95	4.34	5.12	6.48	
RG142-1.0-SMA(M/S)-SMA(M/S)-F	SMA(M) S	SMA(M) S	1 feet	0.06	0.13	0.20	0.25	0.37	0.43	0.54	
RG142-2.0-SMA(M/S)-SMA(M/S)-F	SMA(M) S	SMA(M) S	2 feet	0.10	0.21	0.34	0.43	0.63	0.74	0.93	
N (Male) Straight - N (Male) Straight (DC - 6 GHz)											
RG142-1.0-N(M/S)-N(M/S)-M	N(M)	N(M)	1 m	0.17	0.35	0.56	0.70	1.03	1.2	1.53	
RG142-2.0-N(M/S)-N(M/S)-M	N(M)	N(M)	2 m	0.31	0.63	1.03	1.28	1.88	2.21	2.79	
RG142-5.0-N(M/S)-N(M/S)-M	N(M)	N(M)	3 m	0.44	0.91	1.48	1.85	2.72	3.21	4.06	
RG142-1.0-N(M/S)-N(M/S)-F	N(M)	N(M)	1 feet	0.07	0.15	0.25	0.30	0.44	0.52	0.65	
RG142-2.0-N(M/S)-N(M/S)-F	N(M)	N(M)	2 feet	0.12	0.24	0.39	0.48	0.70	0.82	1.03	
TNC (Male) Straight - TNC (Male) Straight (DC - 4 GHz)											
RG142-1.0-TNC(M/S)-TNC(M/S)-M	TNC(M)	TNC(M)	1 m	0.18	0.36	0.59	0.73	1.07	1.25	1.58	
RG142-2.0-TNC(M/S)-TNC(M/S)-M	TNC(M)	TNC(M)	2 m	0.31	0.64	1.05	1.30	1.91	2.25	2.85	
RG142-5.0-TNC(M/S)-TNC(M/S)-M	TNC(M)	TNC(M)	3 m	0.45	0.92	1.51	1.88	2.76	3.25	4.11	
RG142-1.0-TNC(M/S)-TNC(M/S)-F	TNC(M)	TNC(M)	1 feet	0.08	0.17	0.27	0.33	0.48	0.56	0.7	
RG142-2.0-TNC(M/S)-TNC(M/S)-F	TNC(M)	TNC(M)	2 feet	0.12	0.25	0.41	0.51	0.74	0.87	1.09	

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