



**TYPICAL CHARACTERISTICS
ON
P16T-0R5G18G-60-T-SFF**

PMI Model No. P16T-0R5G18G-60-T-SFF is a high speed, single pole, sixteen throw, absorptive switch capable of switching within 100nsec. The frequency range is 0.5 to 18.0GHz and has over 60dB of isolation.



Designed By: PMI Engineering

Tested & Reported By: Sebastian Palacio

September 10, 2013



**TYPICAL CHARACTERISTICS
ON
P16T-0R5G18G-60-T-SFF**

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 – 18 GHz	0.5 – 18 GHz	
2	Insertion Loss:	7.5 dB Max.	7.2dB See Plots	
3	Isolation:	60 dB Min.	70dB See Plot	
4	VSWR :	Absorptive In/Out 2.0:1 Max. Absorptive Out/Off 2.0:1 Max.	2.0:1 See Plots	
5	Switching Speed:	Delay On/Off: 100ns Typ.	100ns See Plots	
6	Input Power:	+20dBm CW Max (Operating)	Pass	
7	Survival Power:	1 Watt CW 10 Watts Peak 1us	Pass	
8	DC Supply:	+5VDC @ 850 mA Max -5VDC @ 300 mA Max	760mA 230mA	

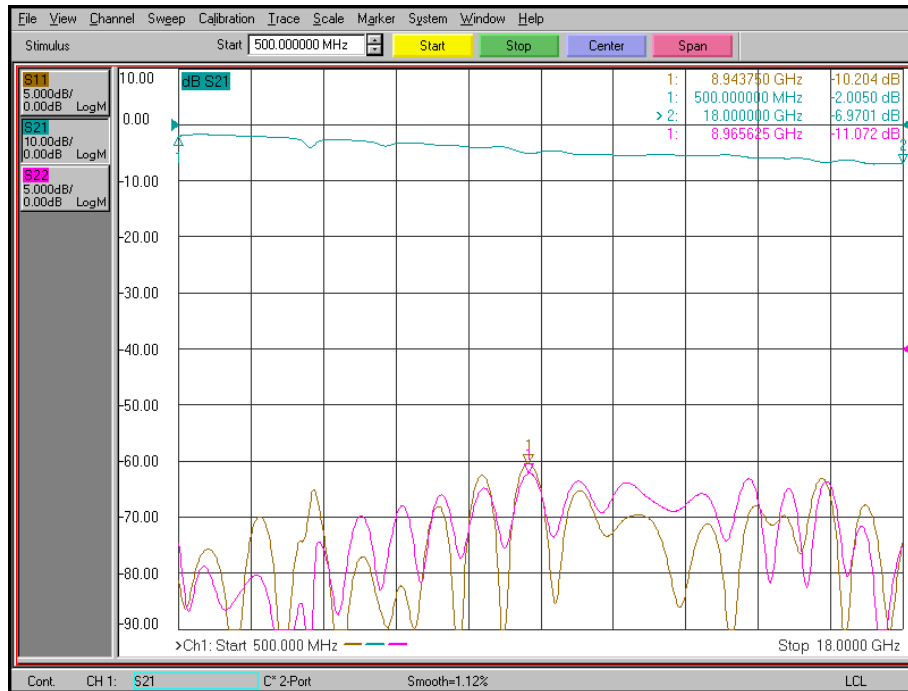
E1	E2	E3	E4	CONNECTOR
0	0	0	0	J1 ON
0	0	0	1	J2 ON
0	0	1	0	J3 ON
0	0	1	1	J4 ON
0	1	0	0	J5 ON
0	1	0	1	J6 ON
0	1	1	0	J7 ON
0	1	1	1	J8 ON
1	0	0	0	J9 ON
1	0	0	1	J10 ON
1	0	1	0	J11 ON
1	0	1	1	J12 ON
1	1	0	0	J13 ON
1	1	0	1	J14 ON
1	1	1	0	J15 ON
1	1	1	1	J16 ON



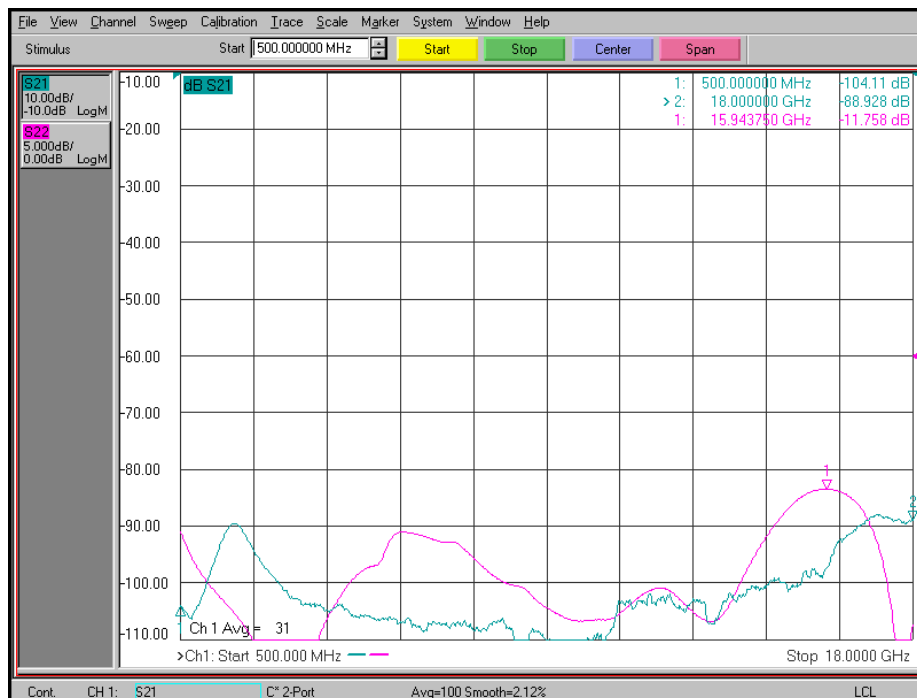
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J1-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

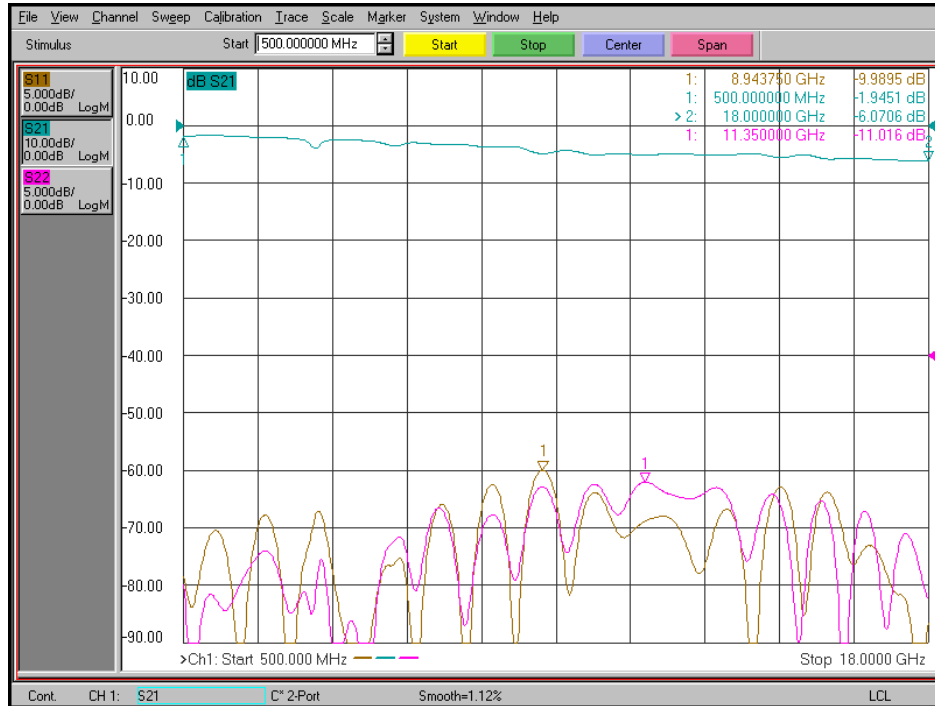




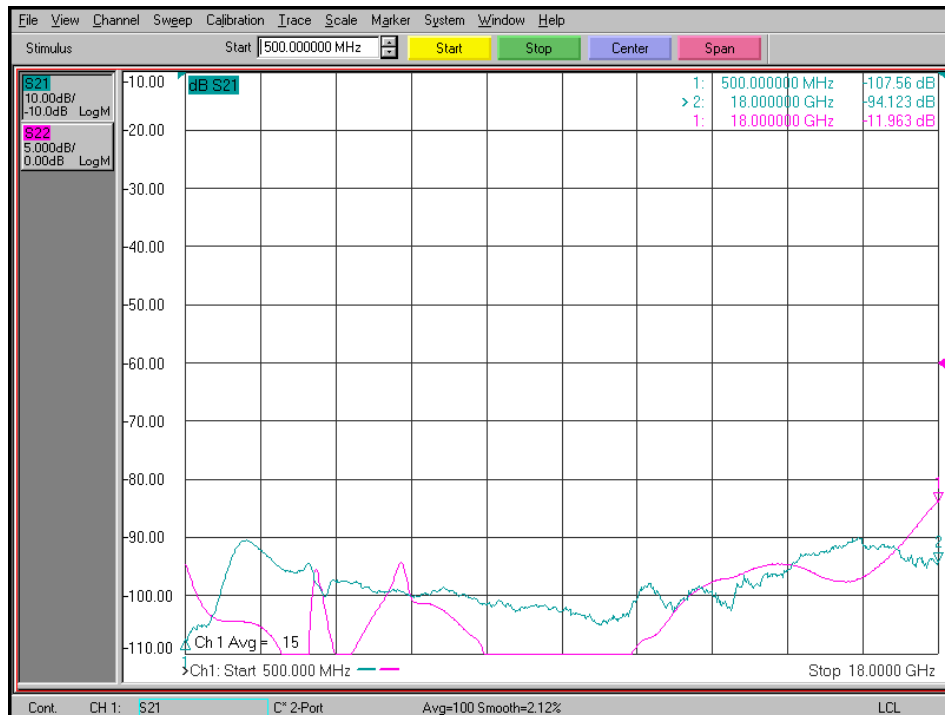
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J2-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

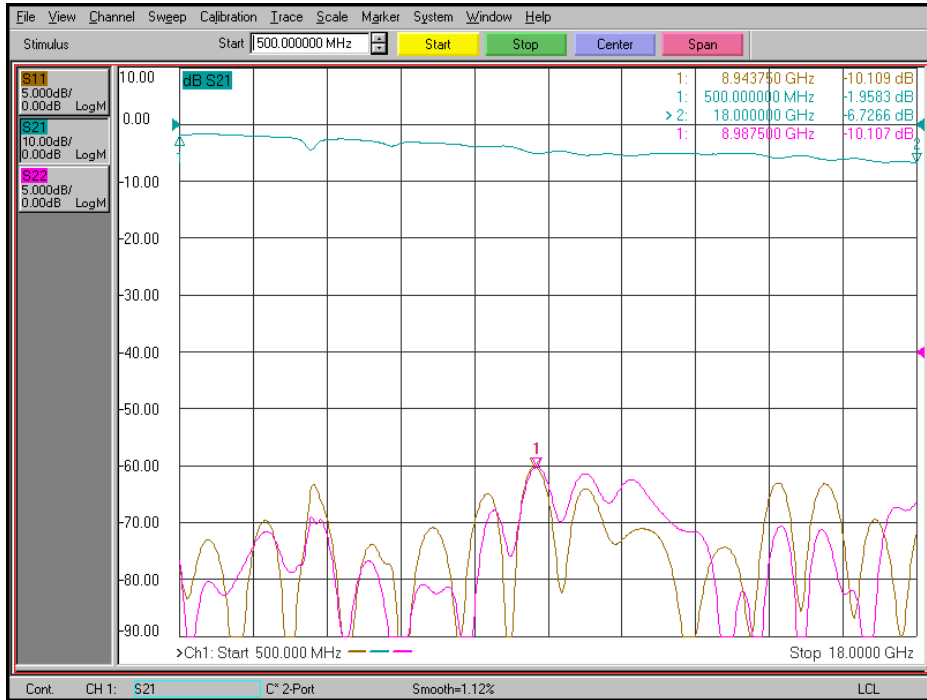




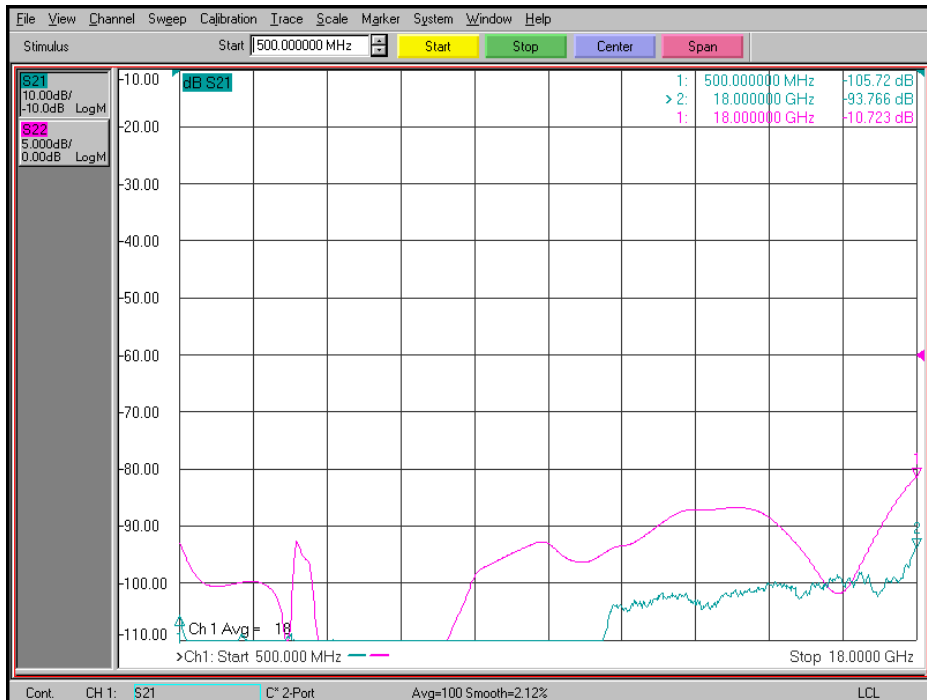
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J3-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

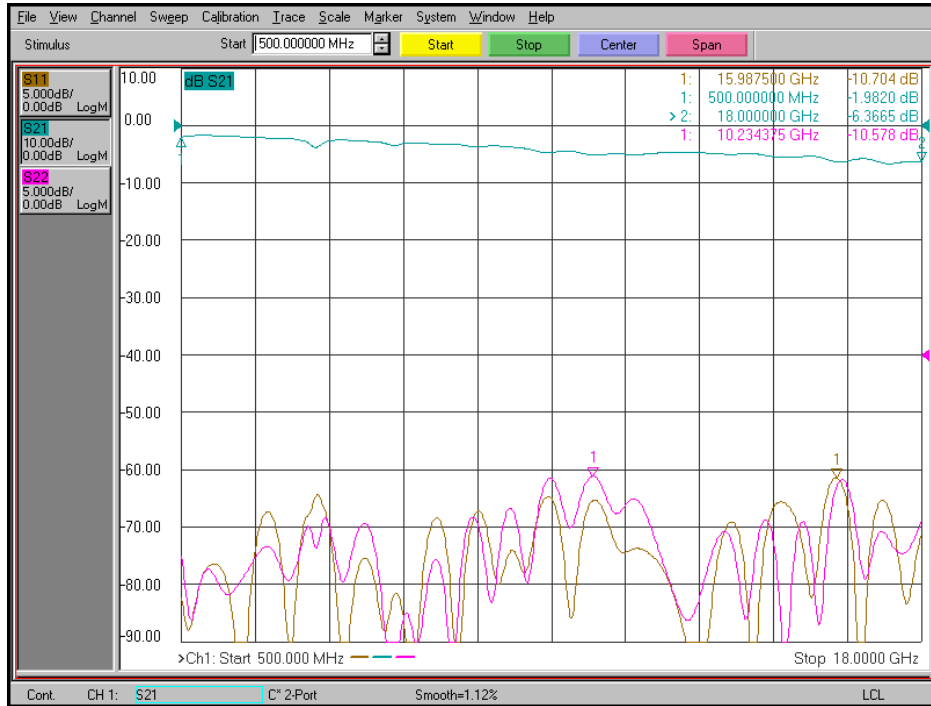




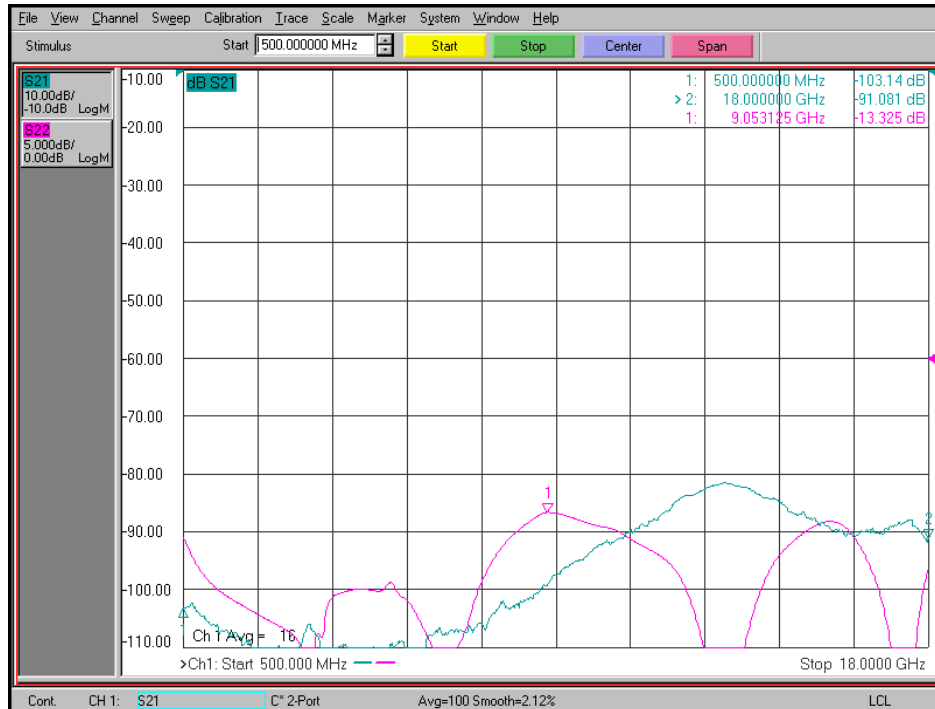
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J4-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

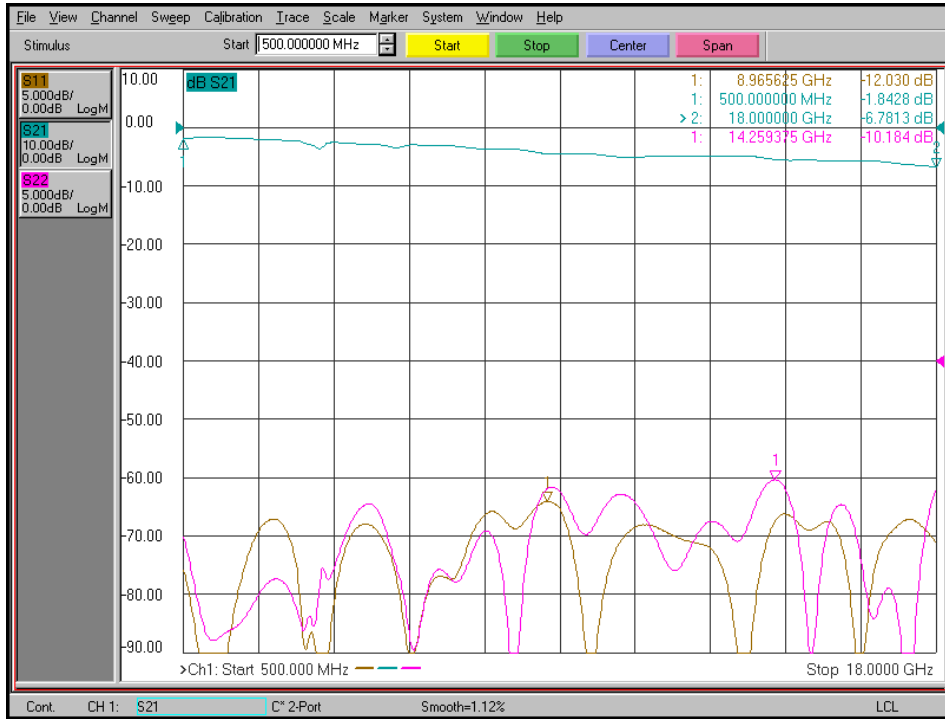




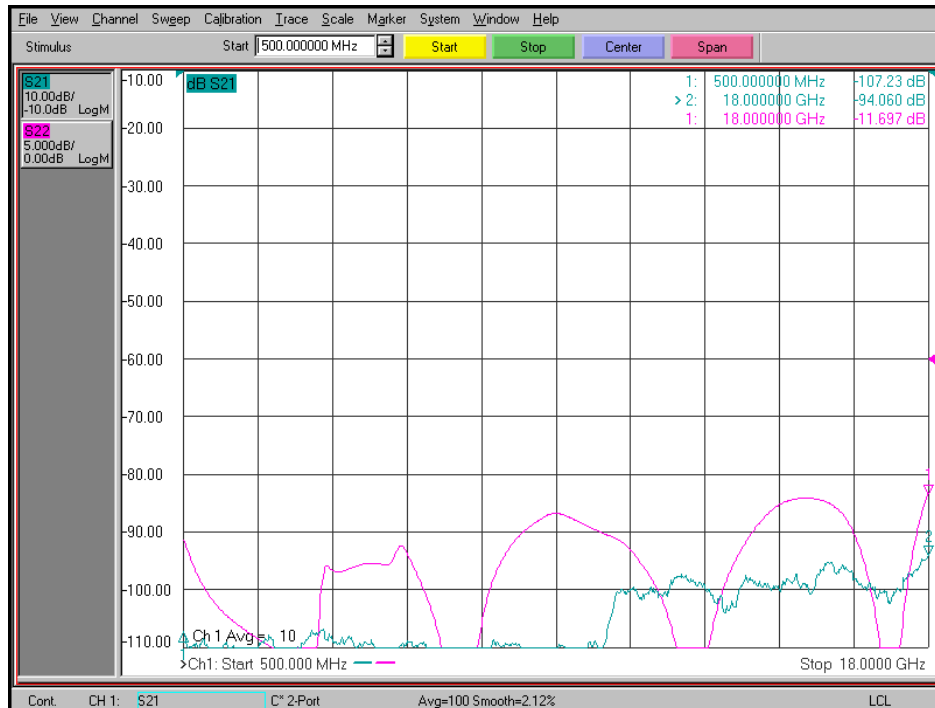
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J5-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

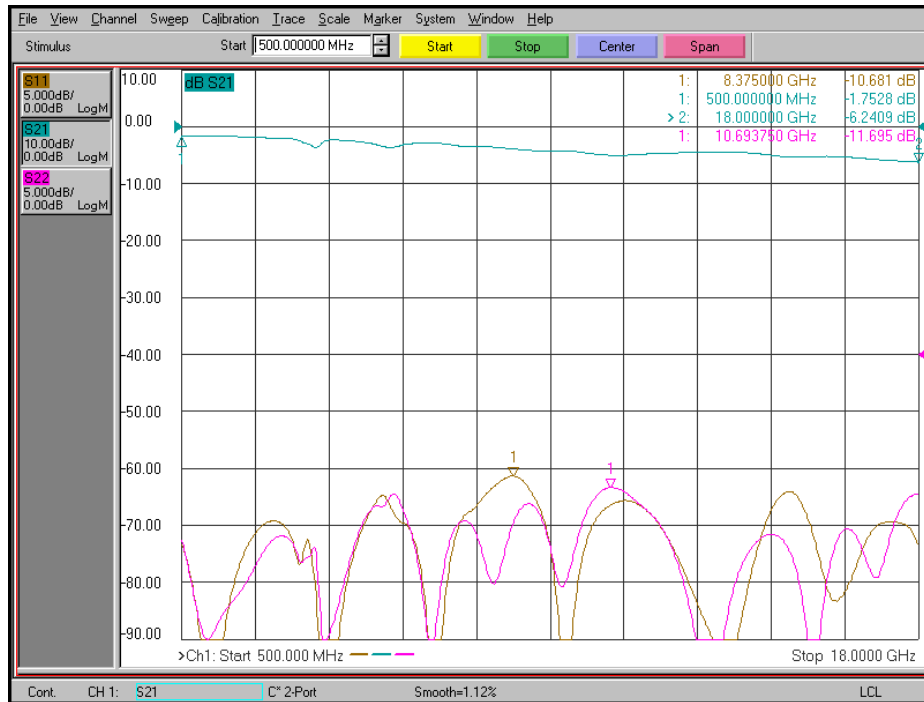




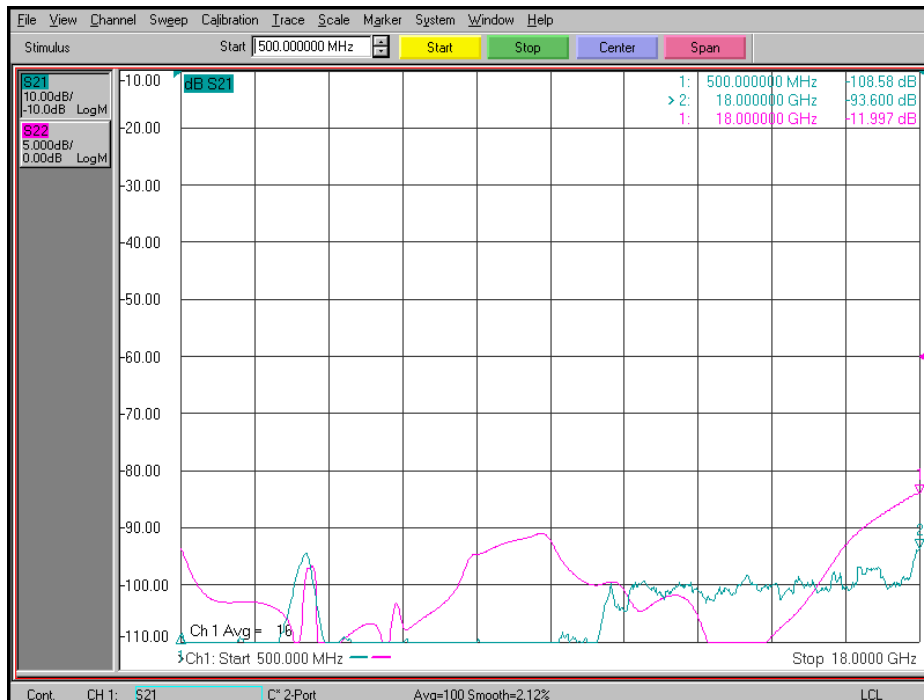
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J6-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

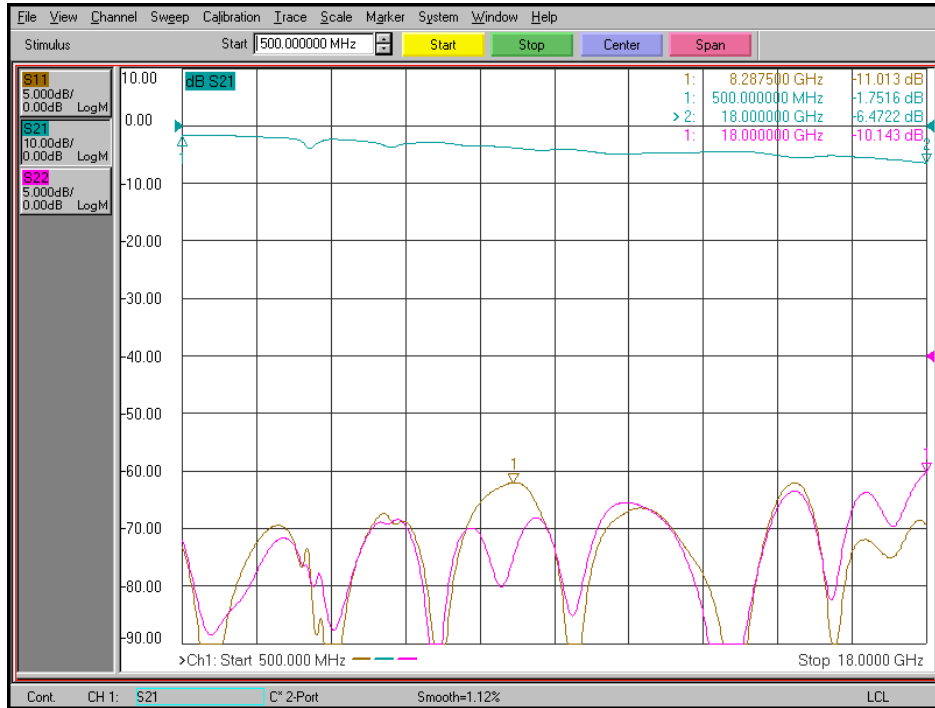




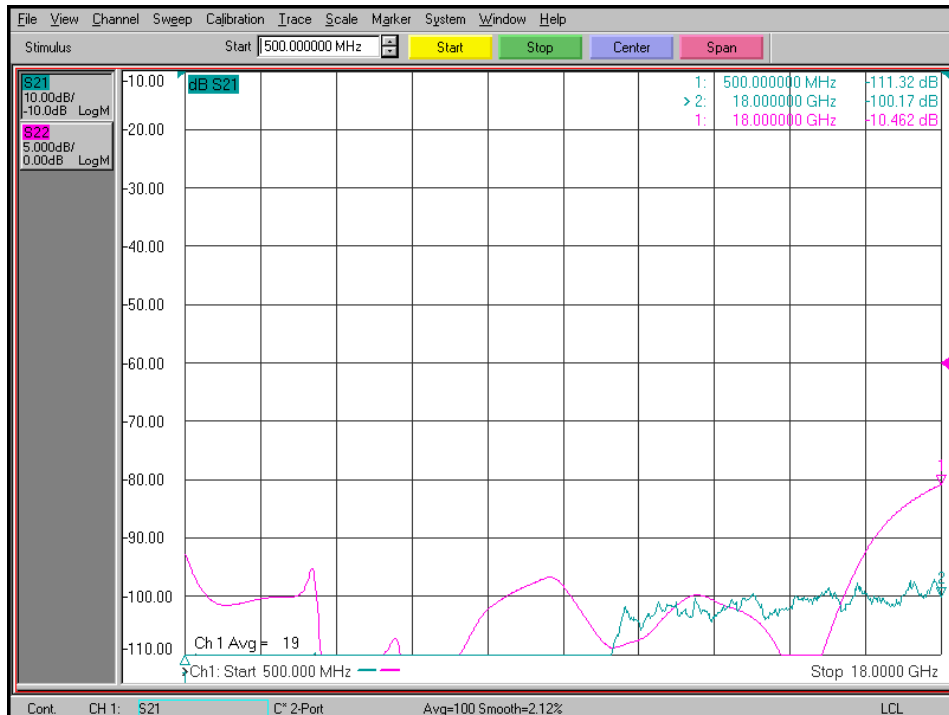
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J7-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

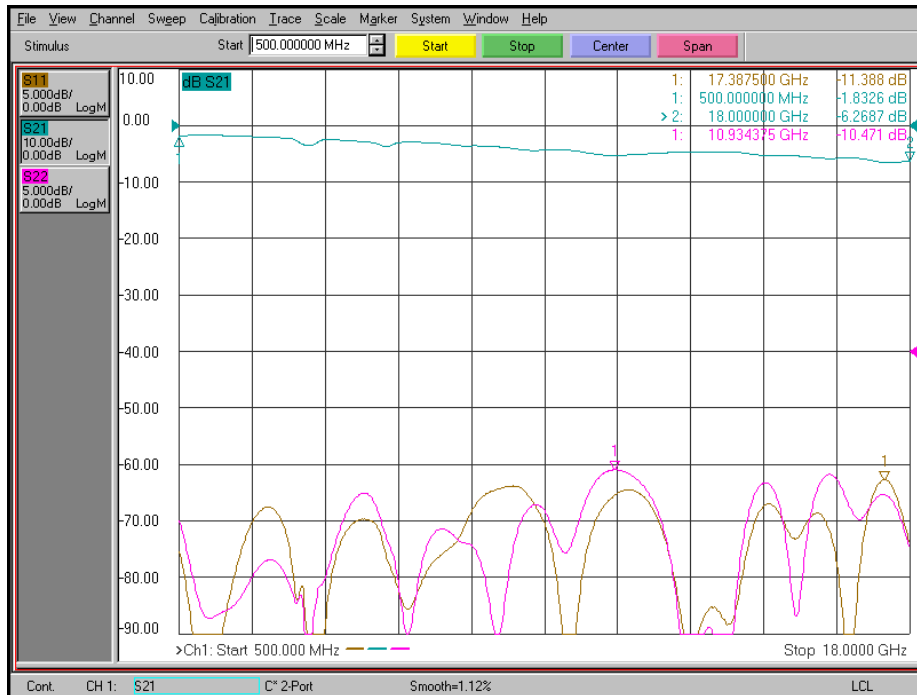




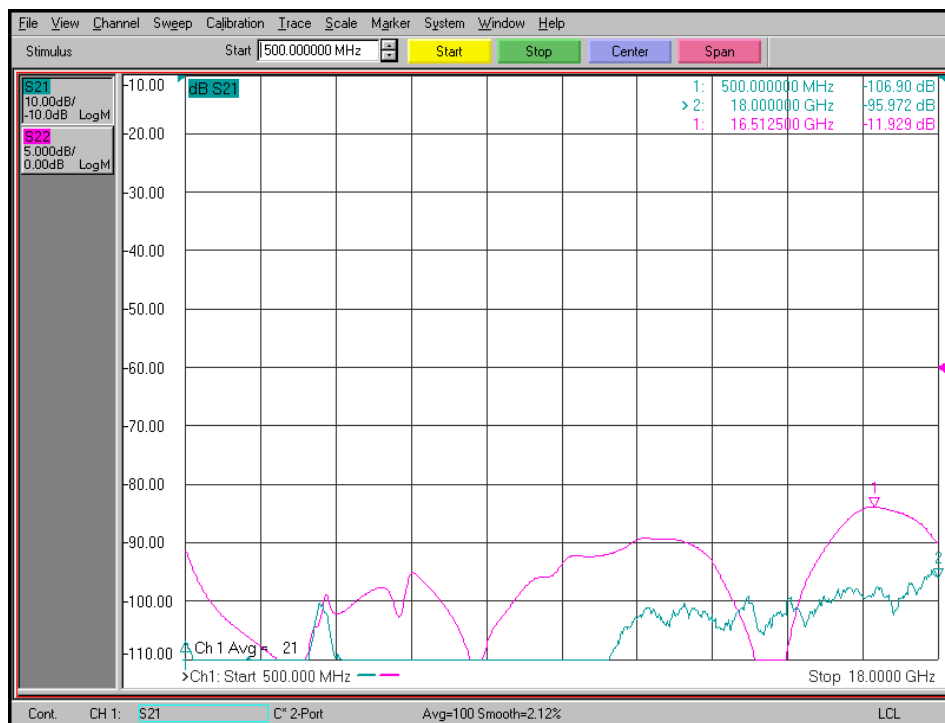
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J8-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

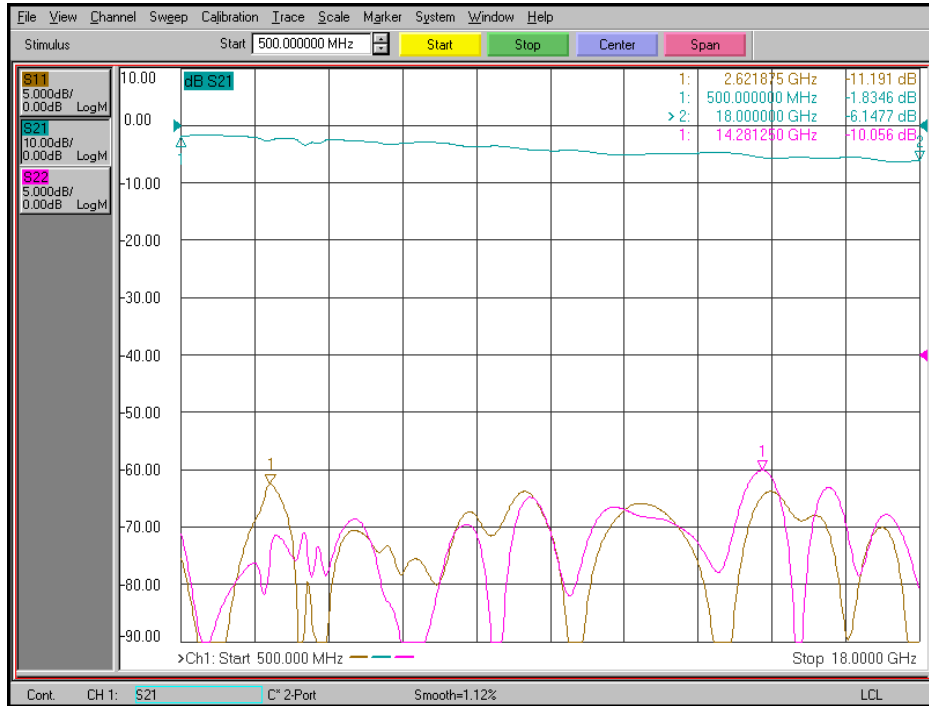




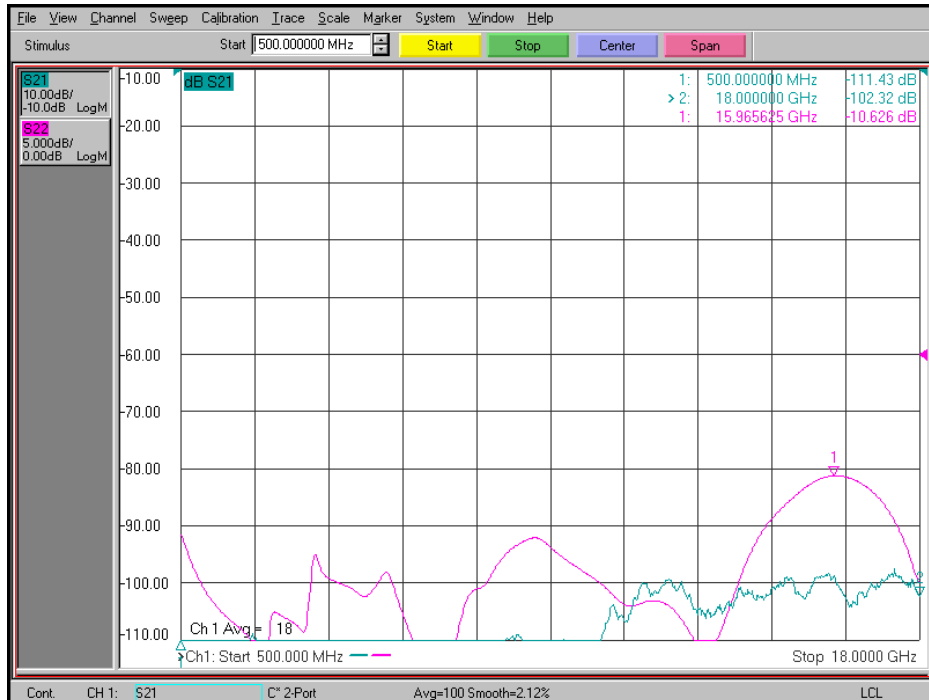
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J9-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

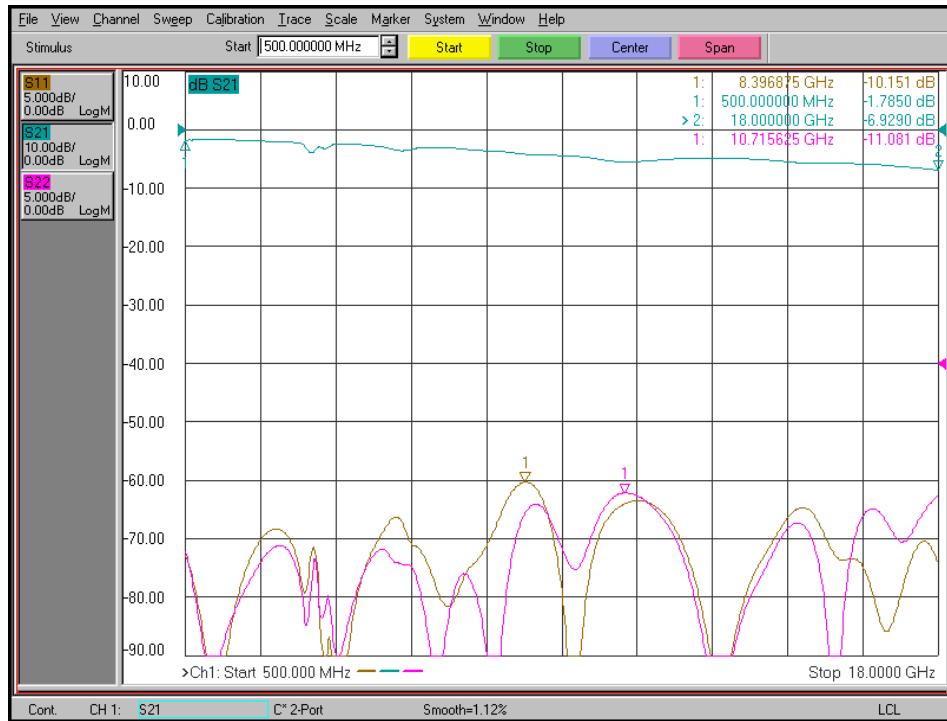




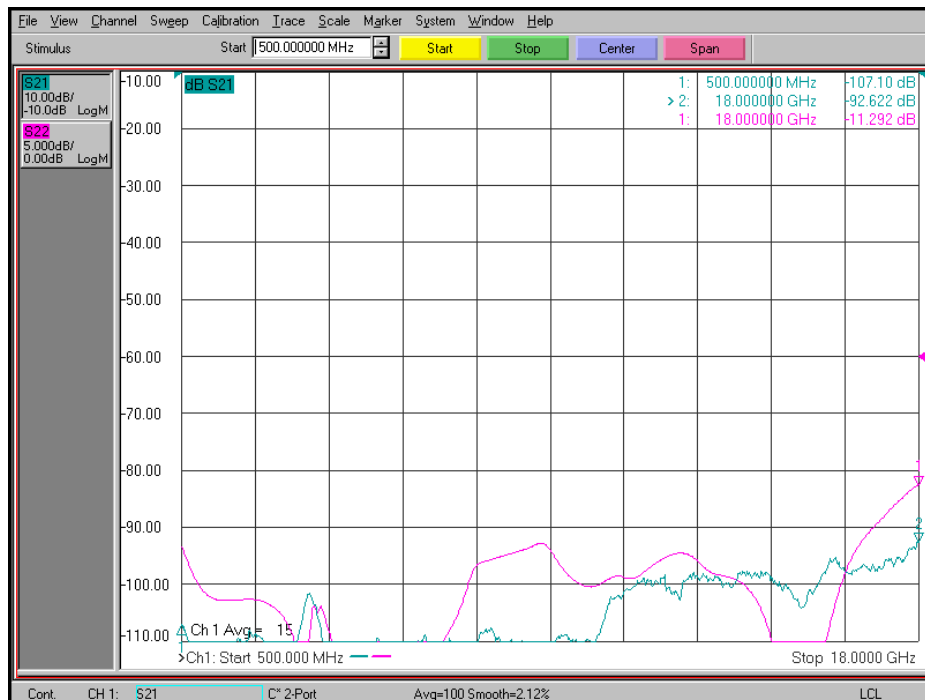
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J10-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

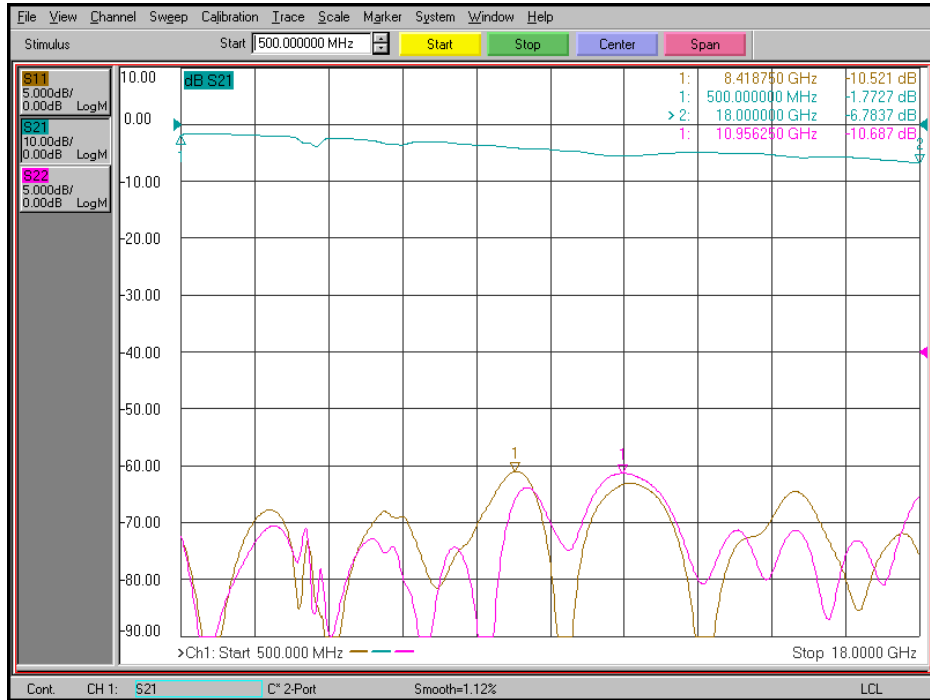




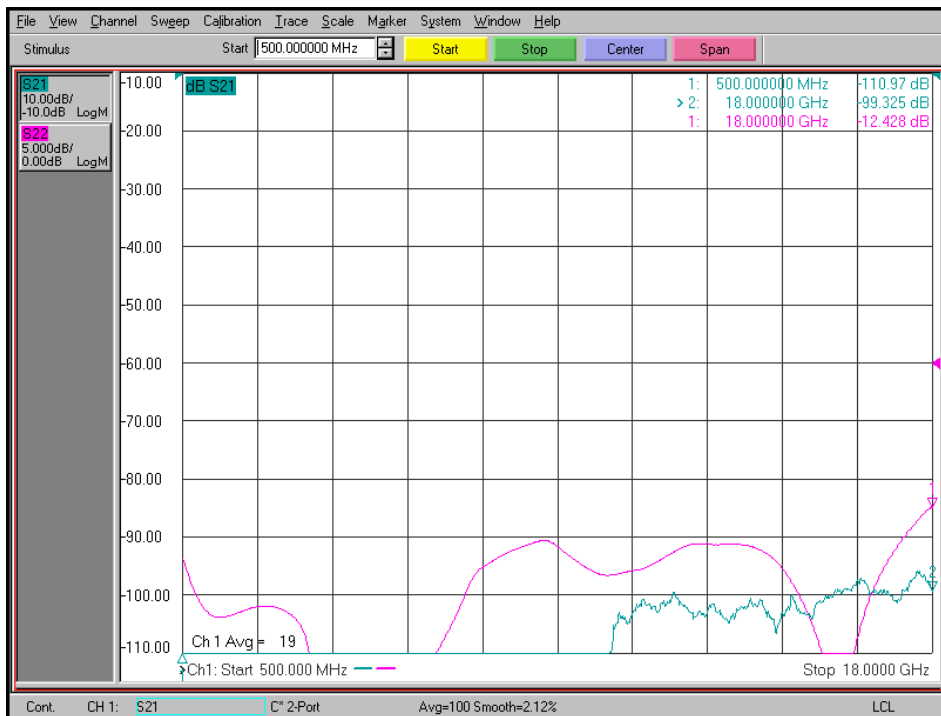
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J11-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

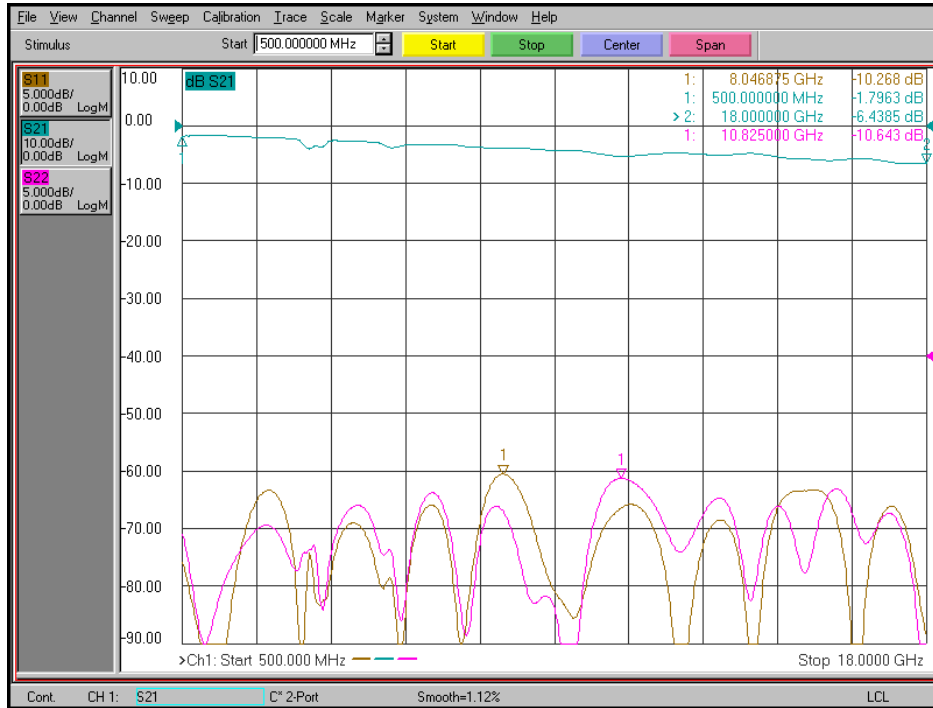




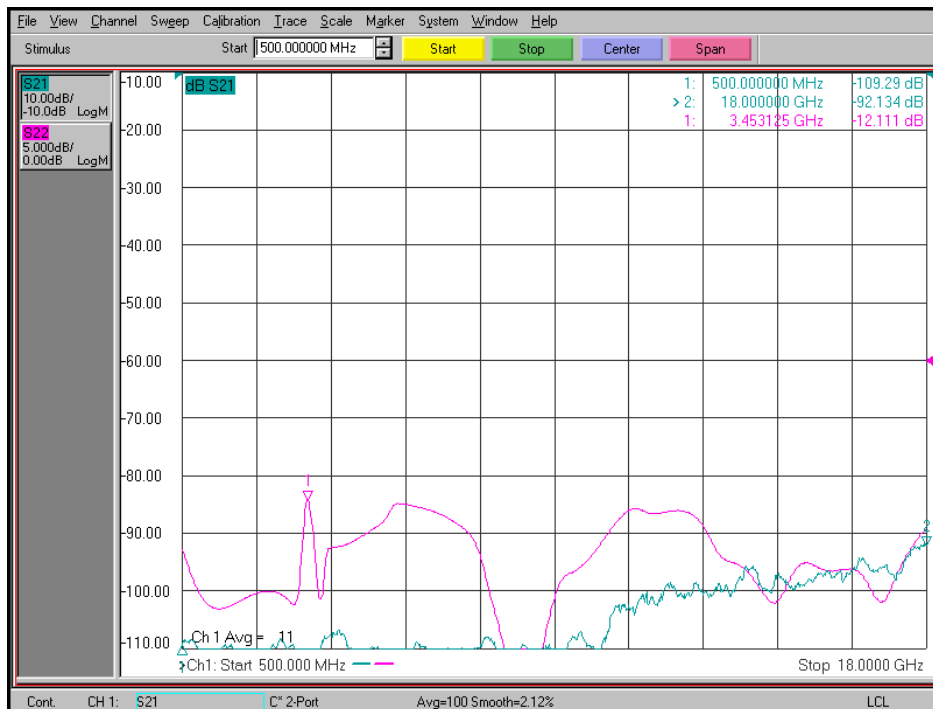
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J12-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

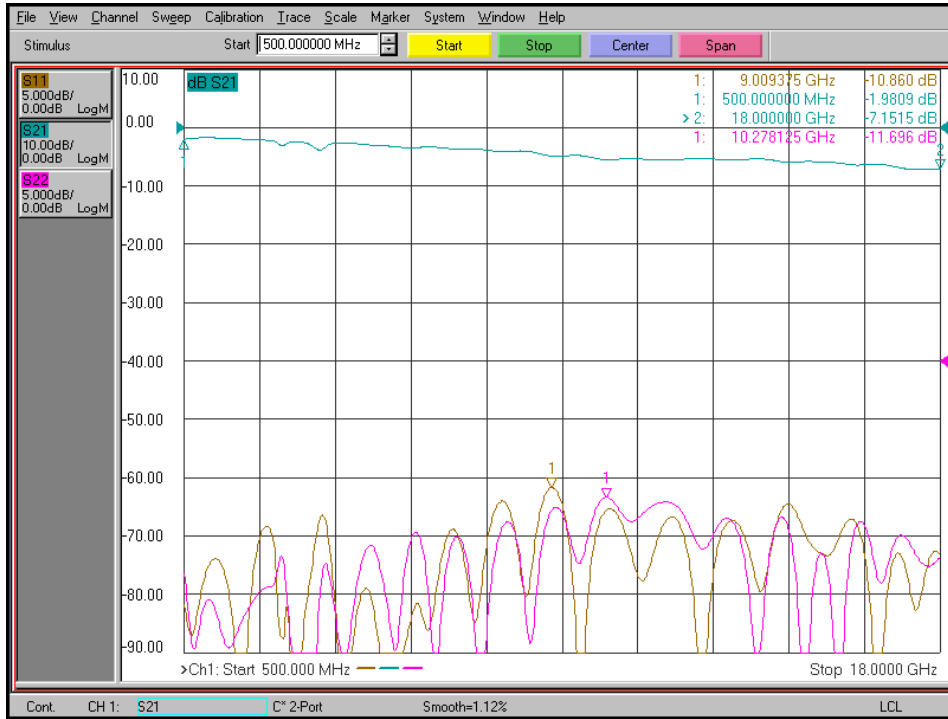




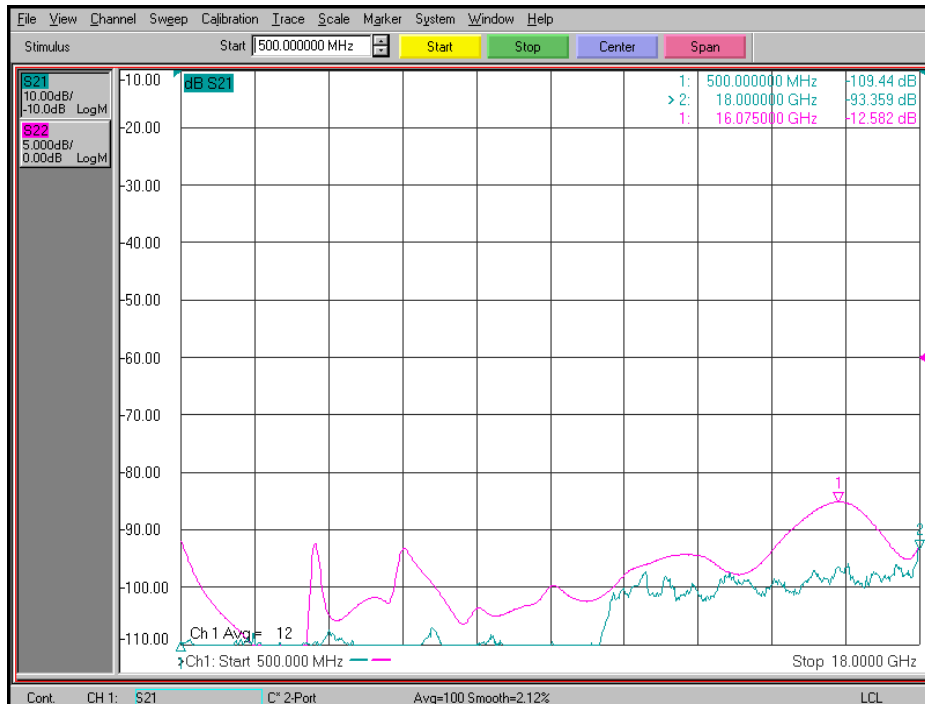
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J13-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

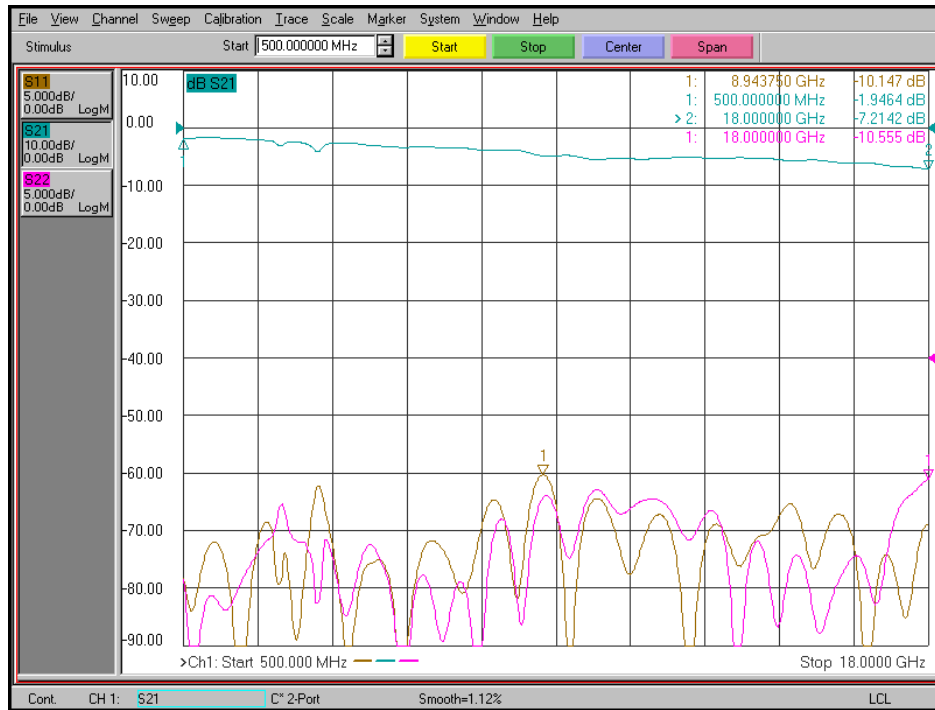




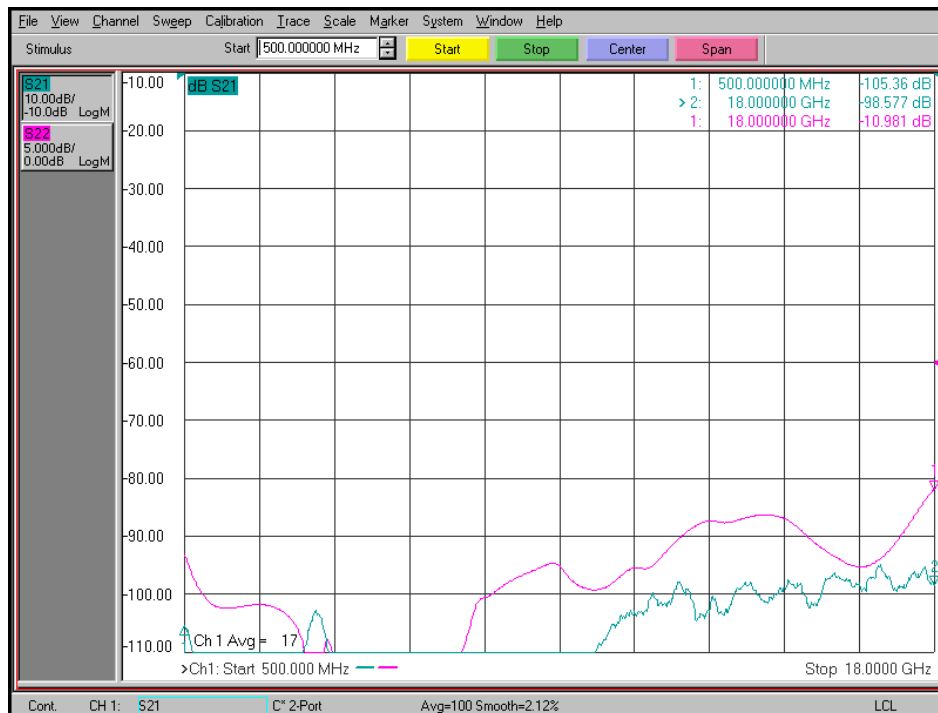
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J14-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

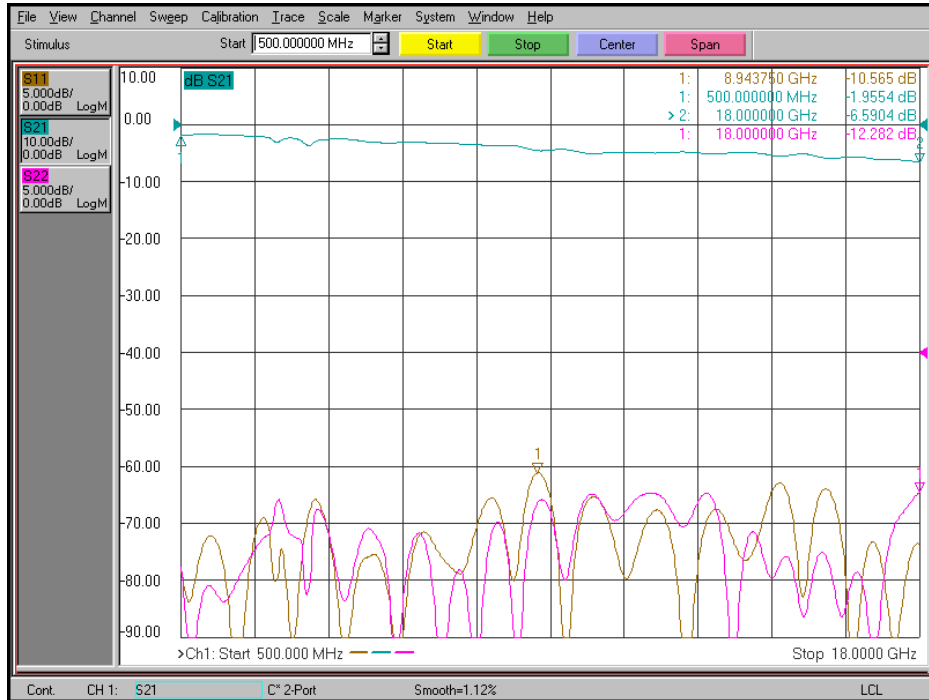




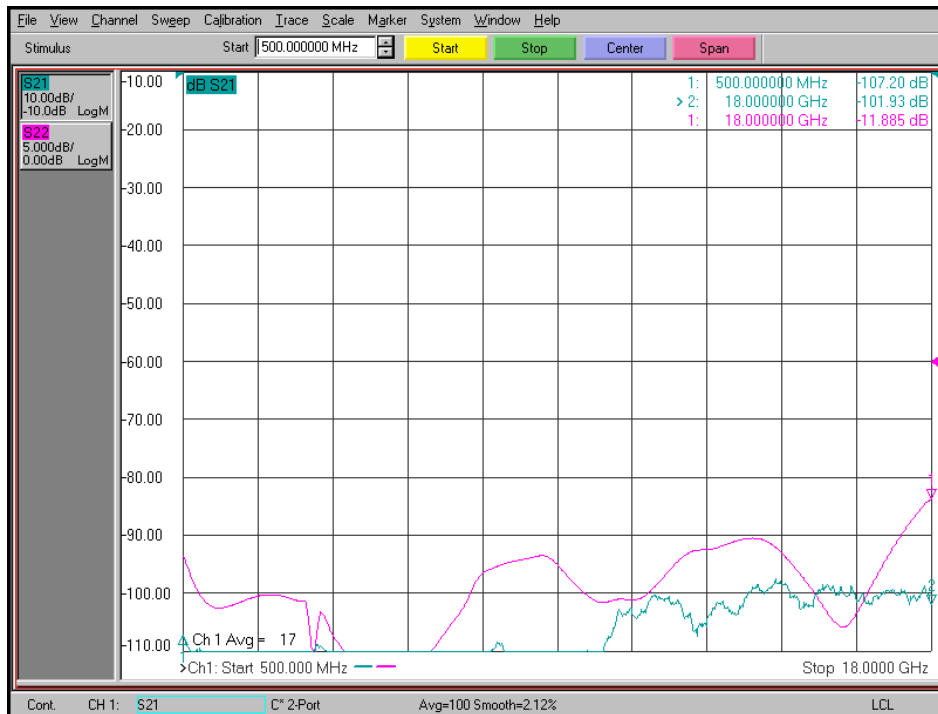
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J15-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

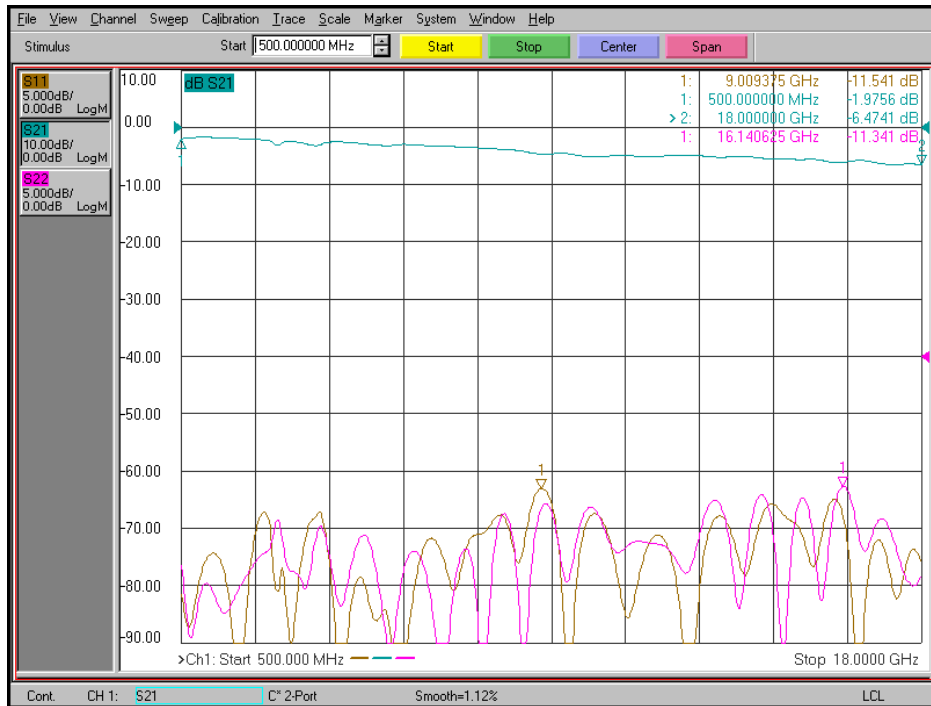




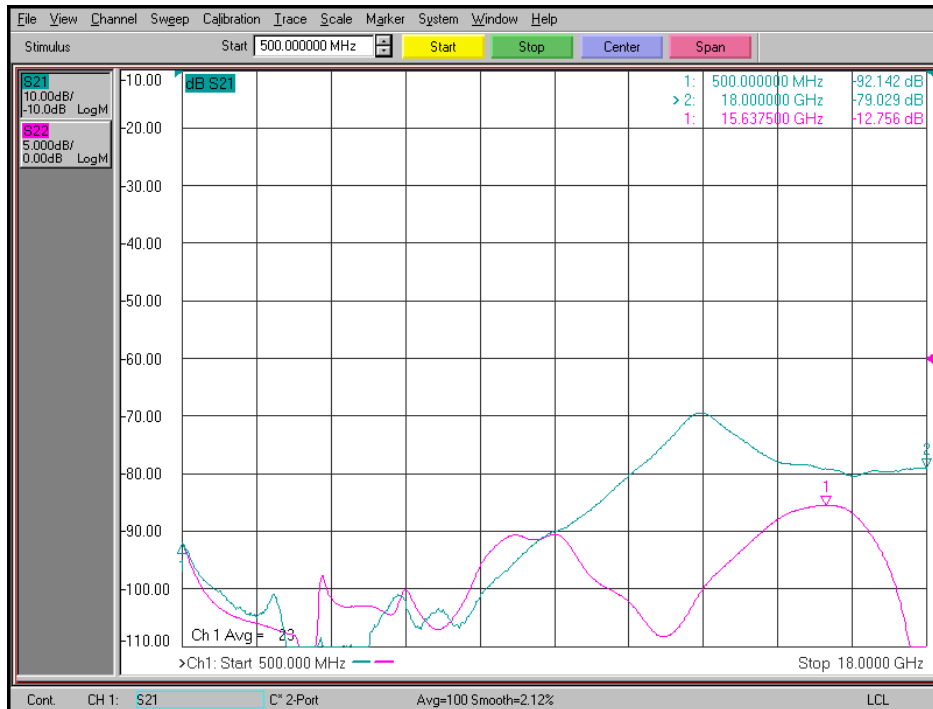
TYPICAL CHARACTERISTICS ON P16T-0R5G18G-60-T-SFF

J16-J17

Insertion Loss and Return Loss



Isolation & Termination VSWR

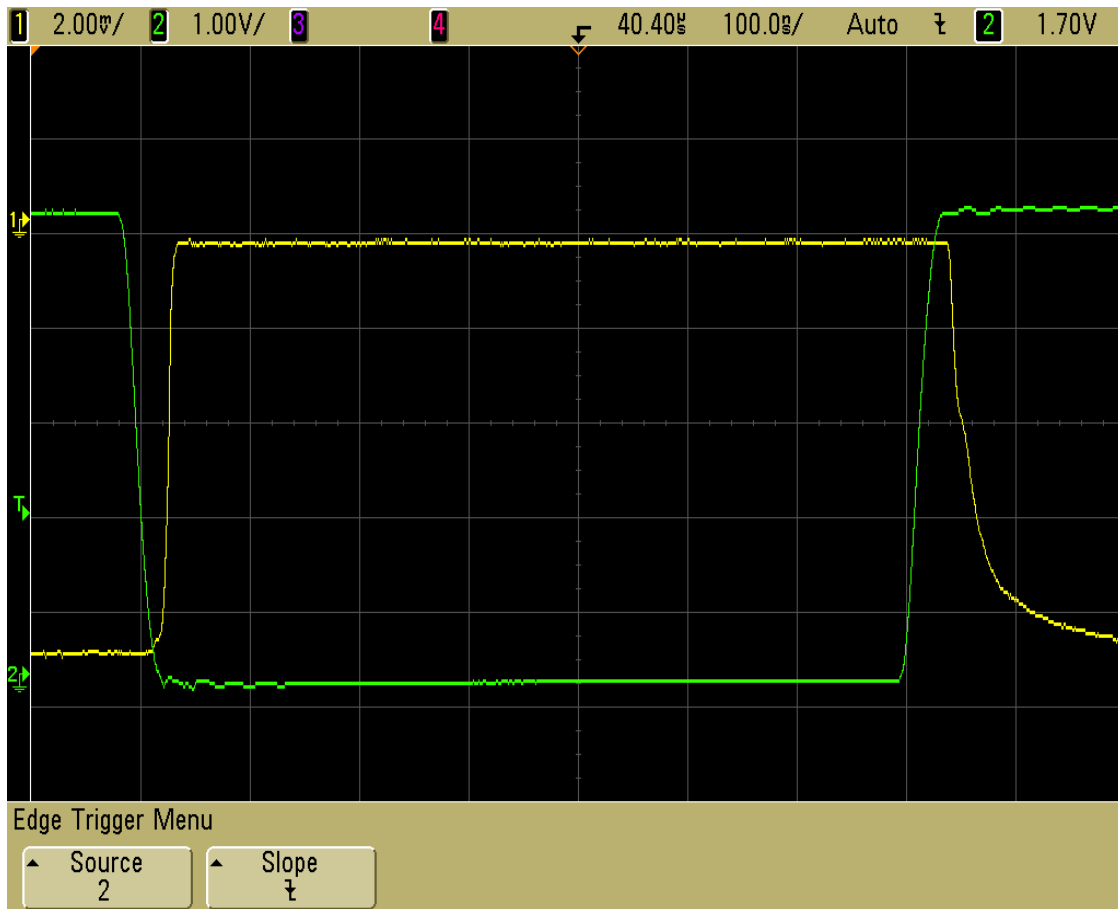




**TYPICAL CHARACTERISTICS
ON
P16T-0R5G18G-60-T-SFF**

Typical Switching Speed

Full Pulse (100ns per Div.)



Channel 1 (Yellow): Output through crystal detector (negative voltage output when RF power is present)

Channel 2 (Green): TTL Input from Signal Generator



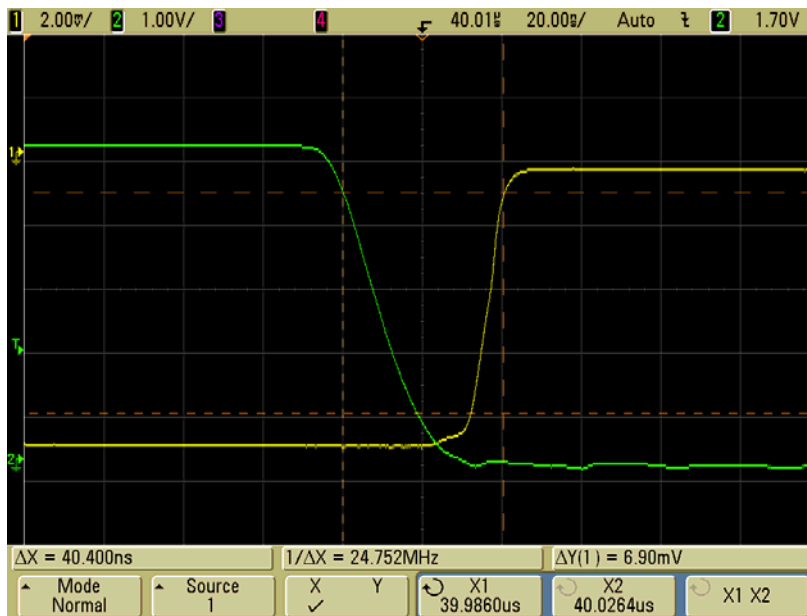
**TYPICAL CHARACTERISTICS
ON
P16T-0R5G18G-60-T-SFF**

Typical Switching Speed

ON Delay (20ns per Div.)



OFF Delay (20ns per Div.)



Channel 1 (Yellow): Output through crystal detector (negative voltage output when RF power is present)

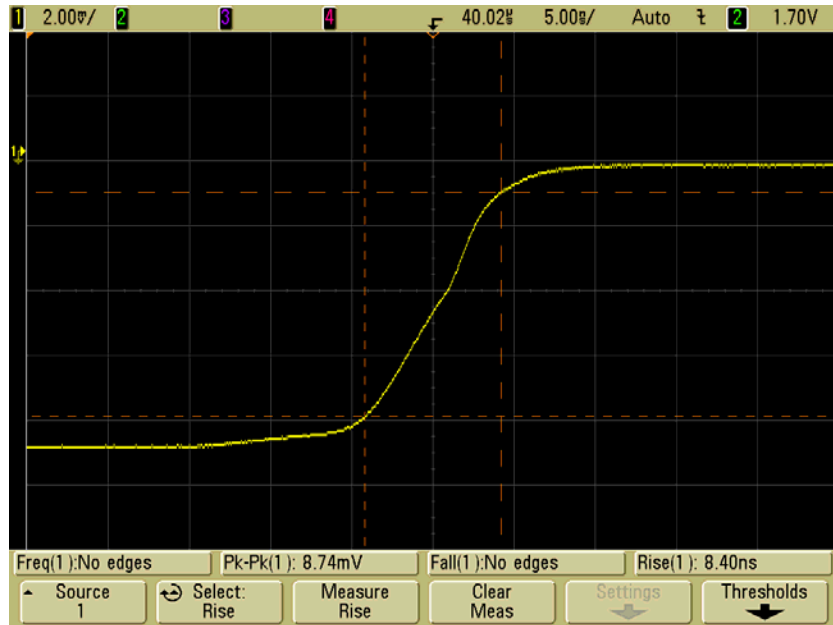
Channel 2 (Green): TTL Input from Signal Generator



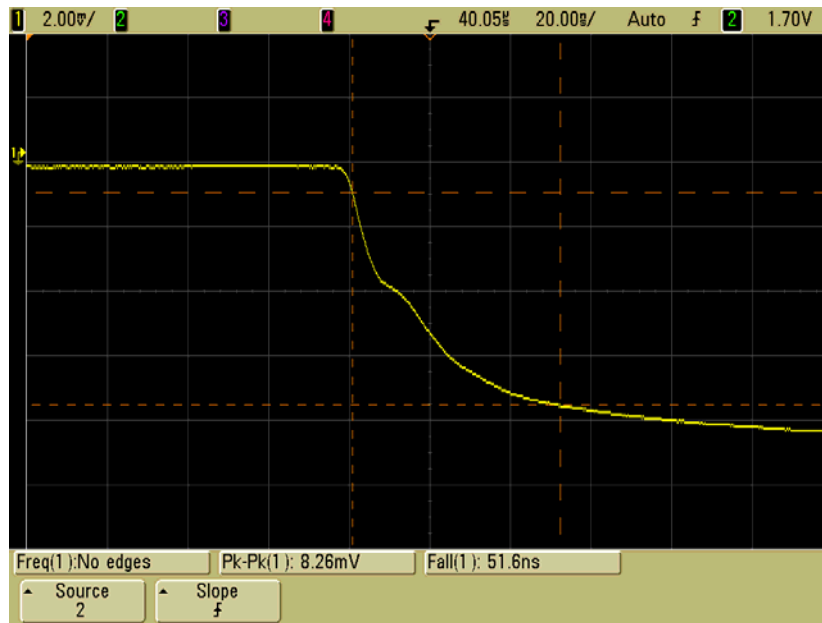
**TYPICAL CHARACTERISTICS
ON
P16T-0R5G18G-60-T-SFF**

Typical Switching Speed

Fall Time (5ns per Div.)



Rise Time (20ns per Div.)



Channel 1 (Yellow): Output through crystal detector (negative voltage output when RF power is present)