

SAW Filter 1030 MHz (BW 10 MHz) SMD 3.0X3.0 mm

MODEL NO.:TA1980A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: +15 dBm (+20 dBm Max)
2. DC Voltage : 3 V
3. Operating Temperature: -55 °C to +85 °C
4. Storage Temperature: -55 °C to +125 °C
5. Moisture Sensitivity Level: Level 1 (MSL1)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

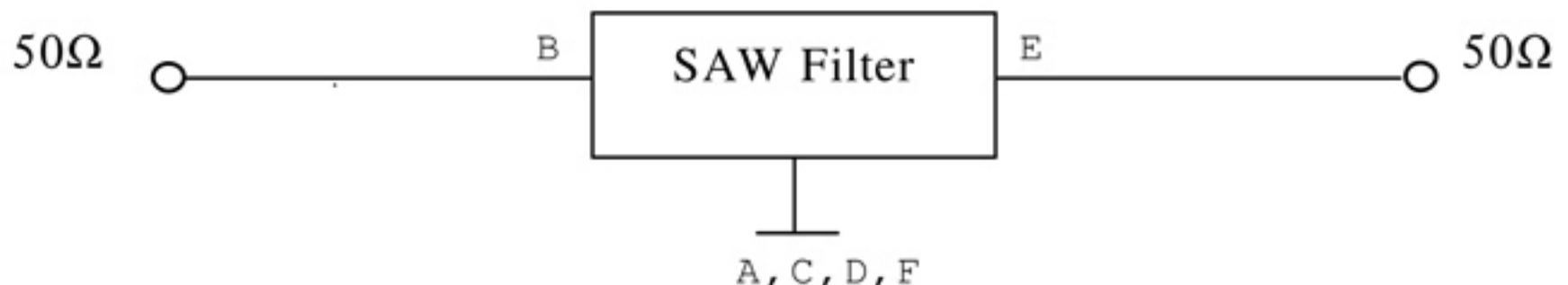
Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max
Center frequency Fc	MHz	-	1030	-
Insertion Loss (1025 ~ 1035 MHz) IL	dB	-	3.0	4.0
Amplitude ripple (1025 ~ 1035 MHz)	dB	-	0.8	2.0
Maximum Absolute Group Delay(1025 ~ 1035 MHz)	ns	-	65*	80
Group Delay Variation (1025 ~ 1035 MHz)	ns	-	16*	80
Attenuation (Reference level from 0 dB at MHz)				
500 ~ 946	dB	40	42	-
949 ~ 980	dB	38	42	-
980 ~ 990	Db	40	42	-
1005	dB	30	40	-
1055	dB	30	40	-
1080 ~ 1400	dB	40	42	-
1400 ~ 1600	dB	35	41	-
Temperature coefficient of frequency	ppm/°C	-	-36	-

*Measure at 2% smoothing factor

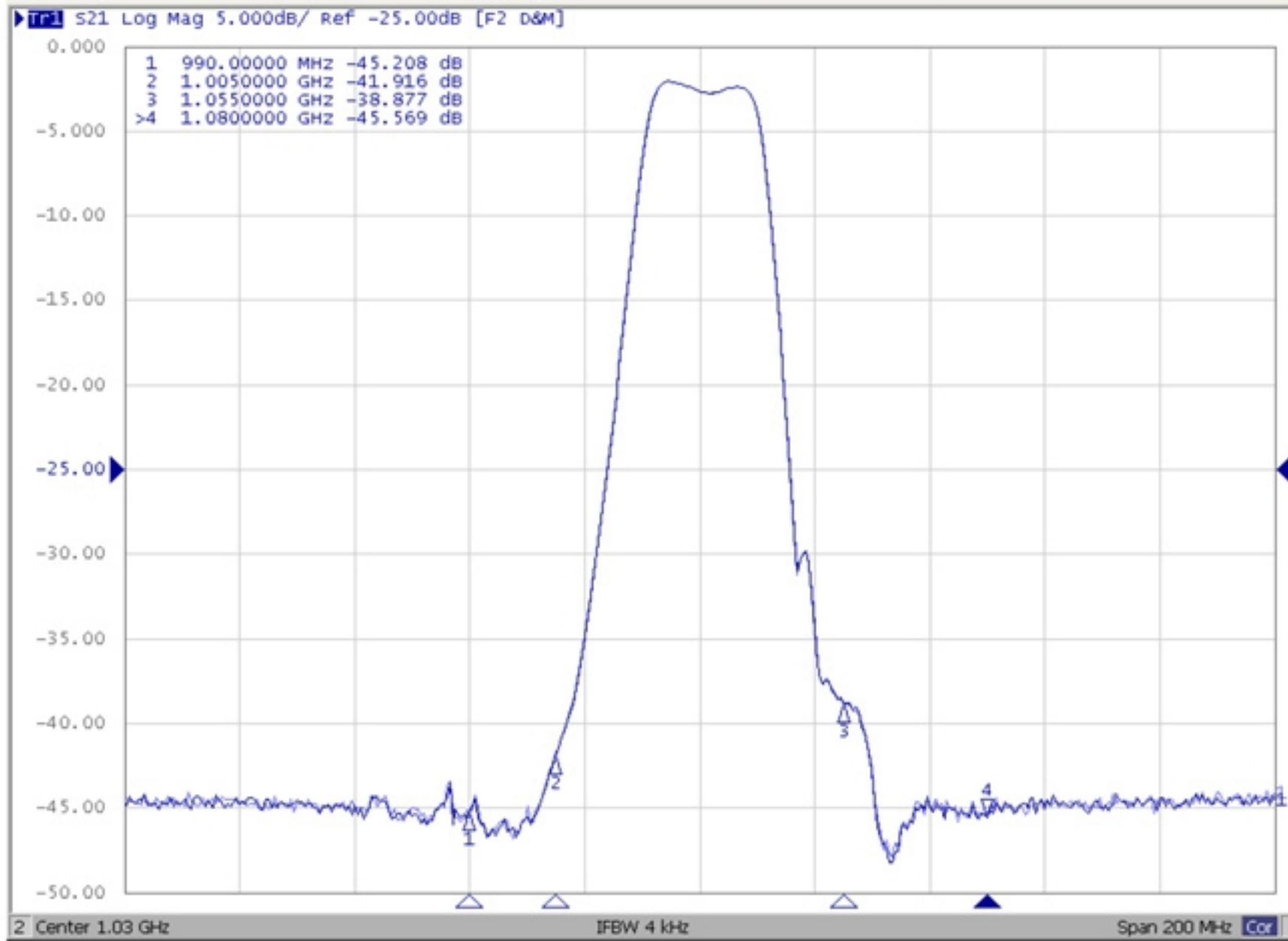
C. TEST CIRCUIT:

HP Network analyzer

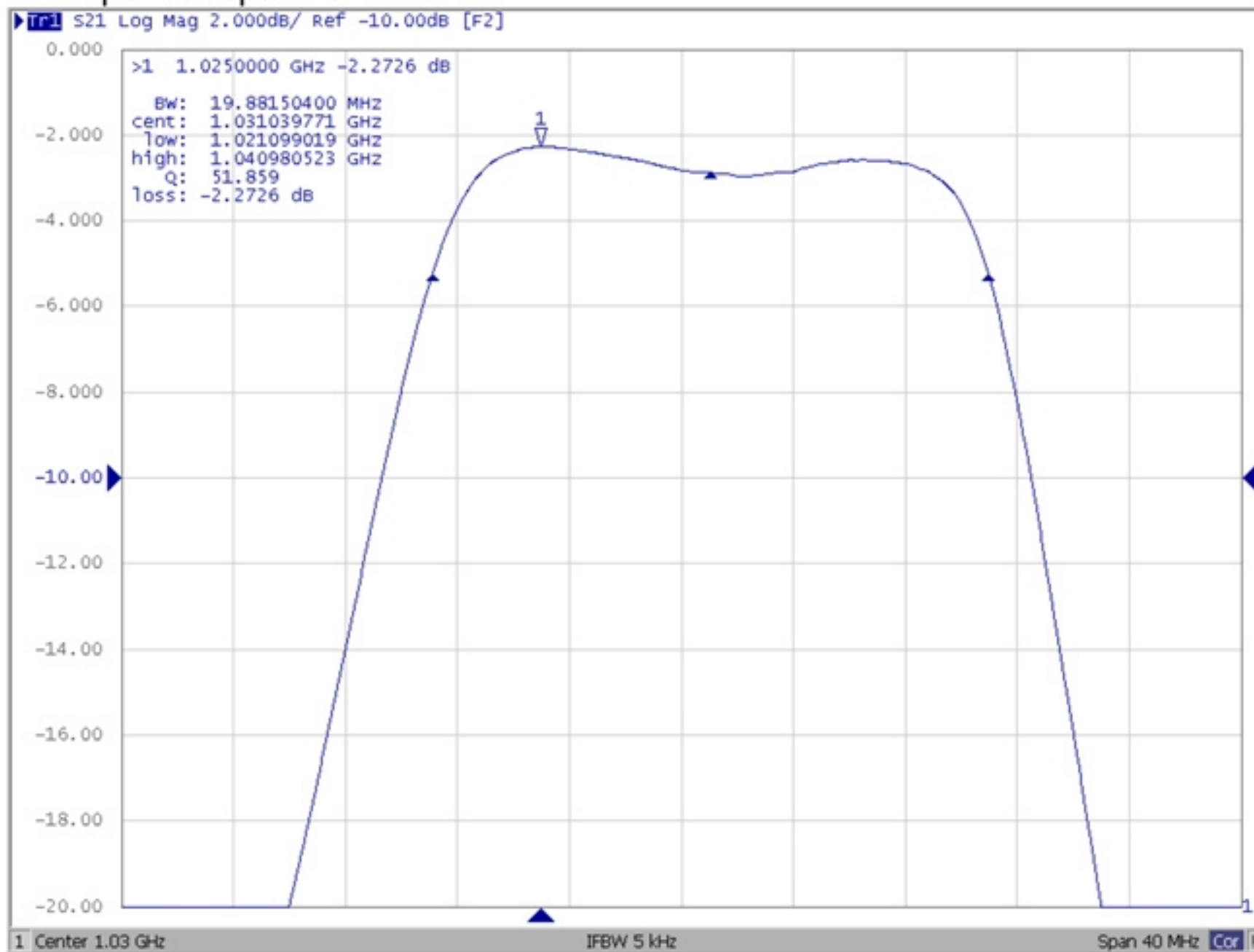


D. Frequency Characteristics:

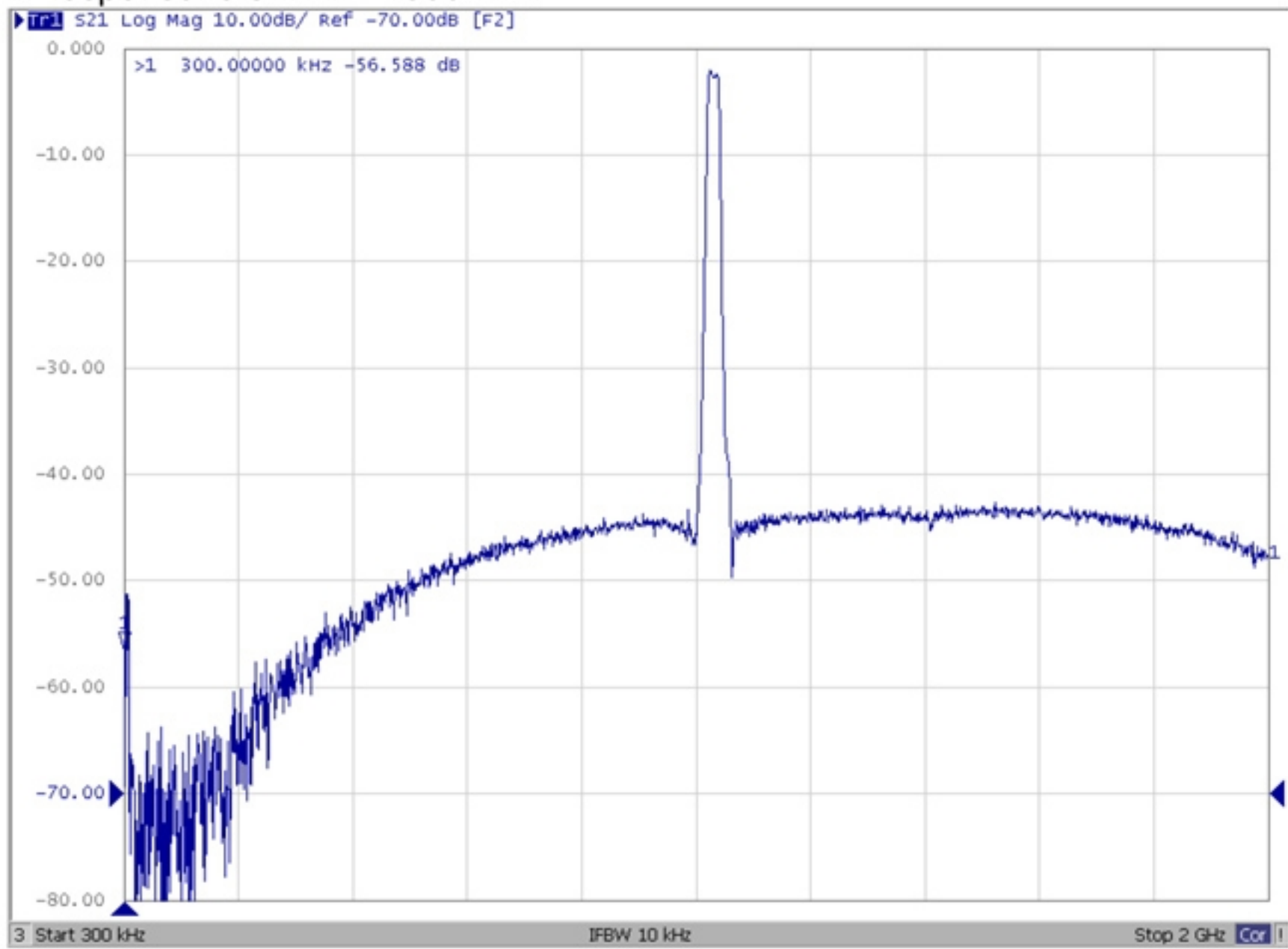
S21 response: Center 1030MHz, Span 200MHz



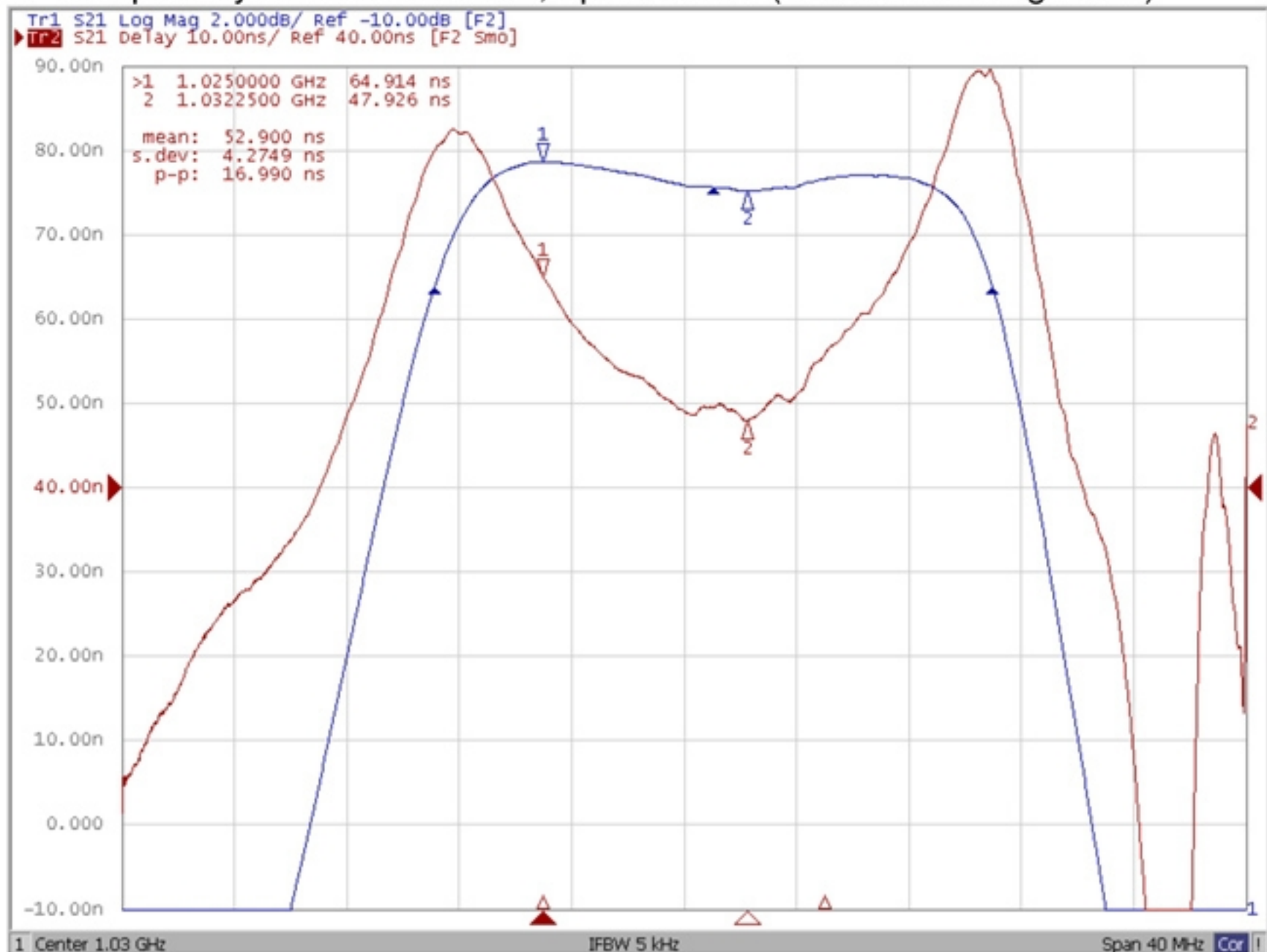
S21 responds: Span 40MHz



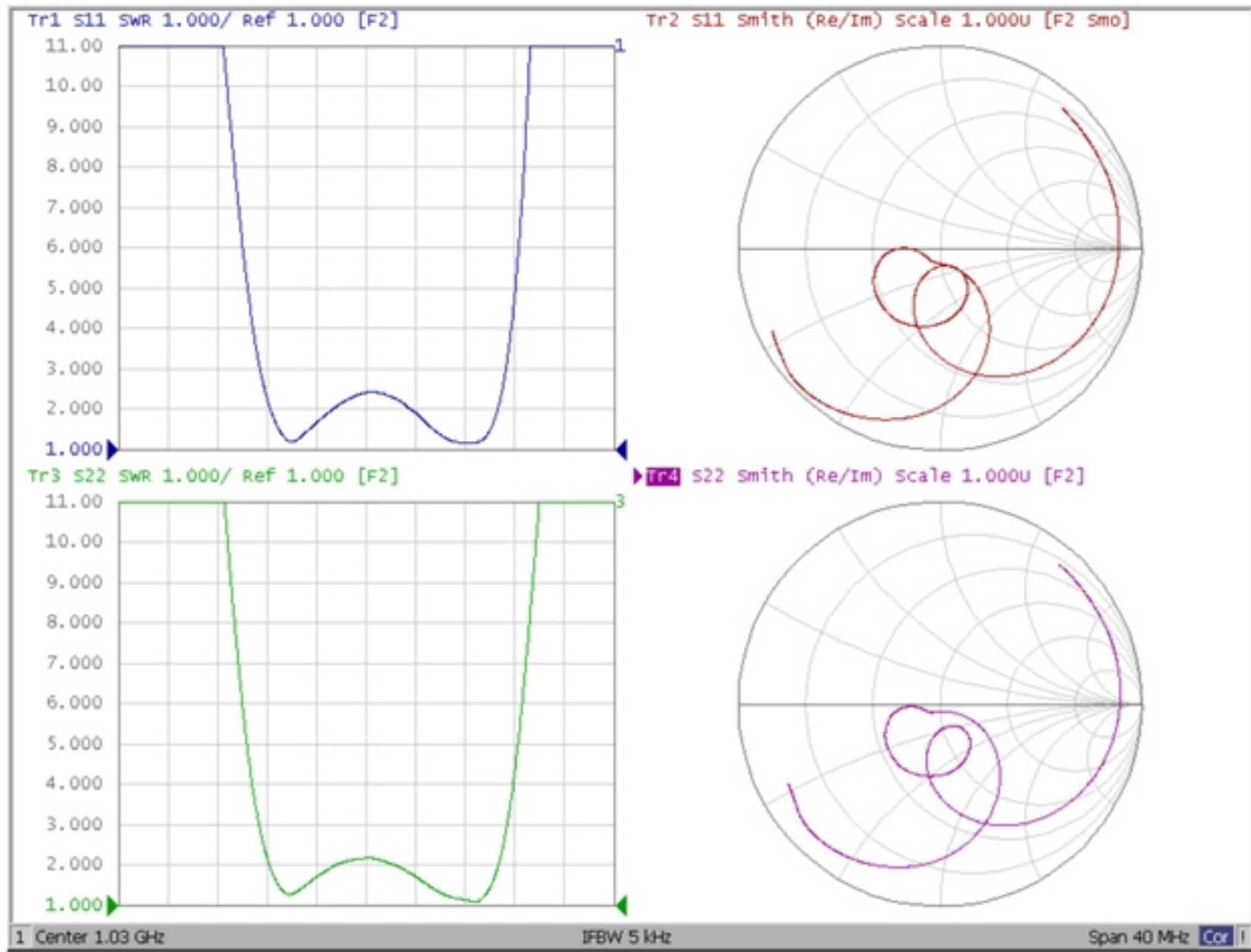
S21 response: 0.3MHz ~ 2000MHz



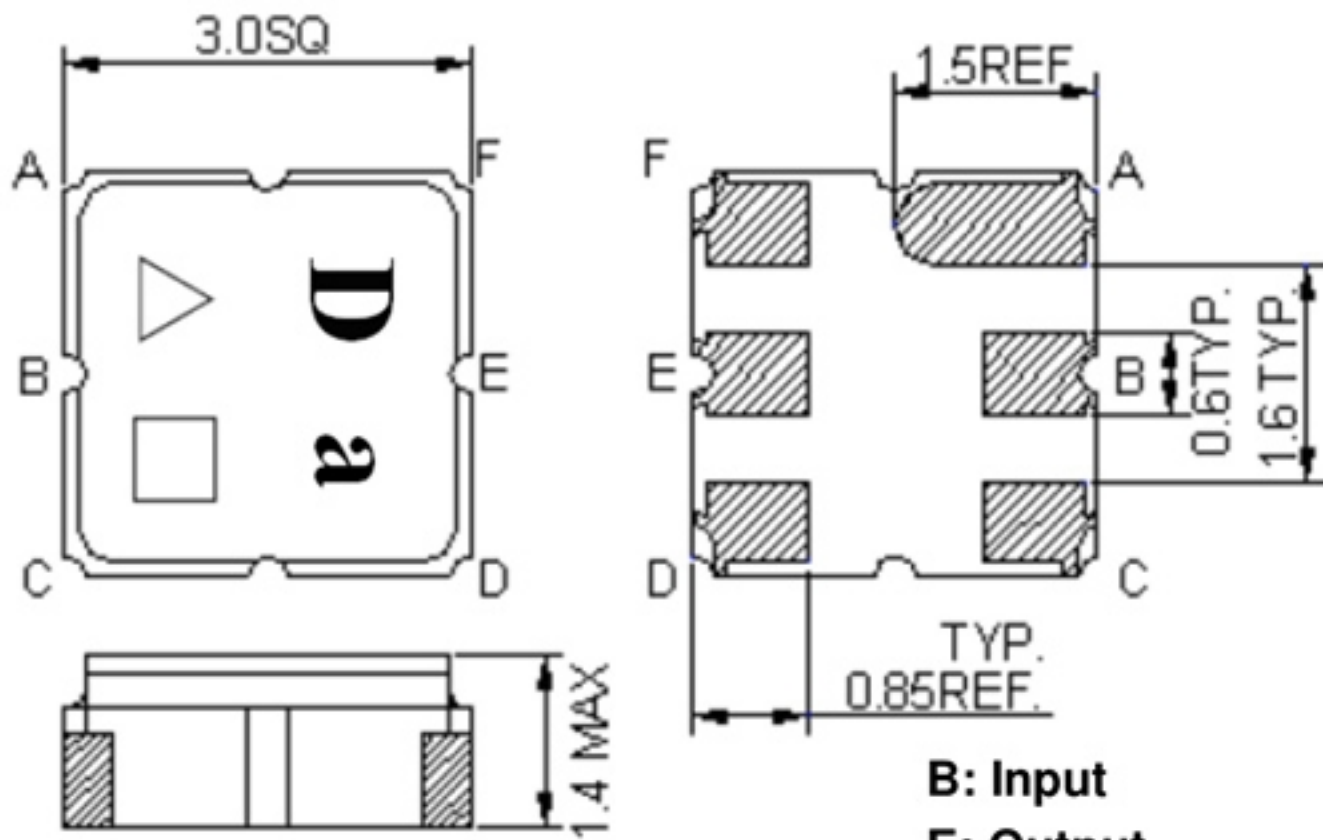
S21 Group Delay: Center 1030MHz, Span 40MHz (at 2% smoothing factor)



Reflection Characteristic



E.OUTLINE DRAWING:

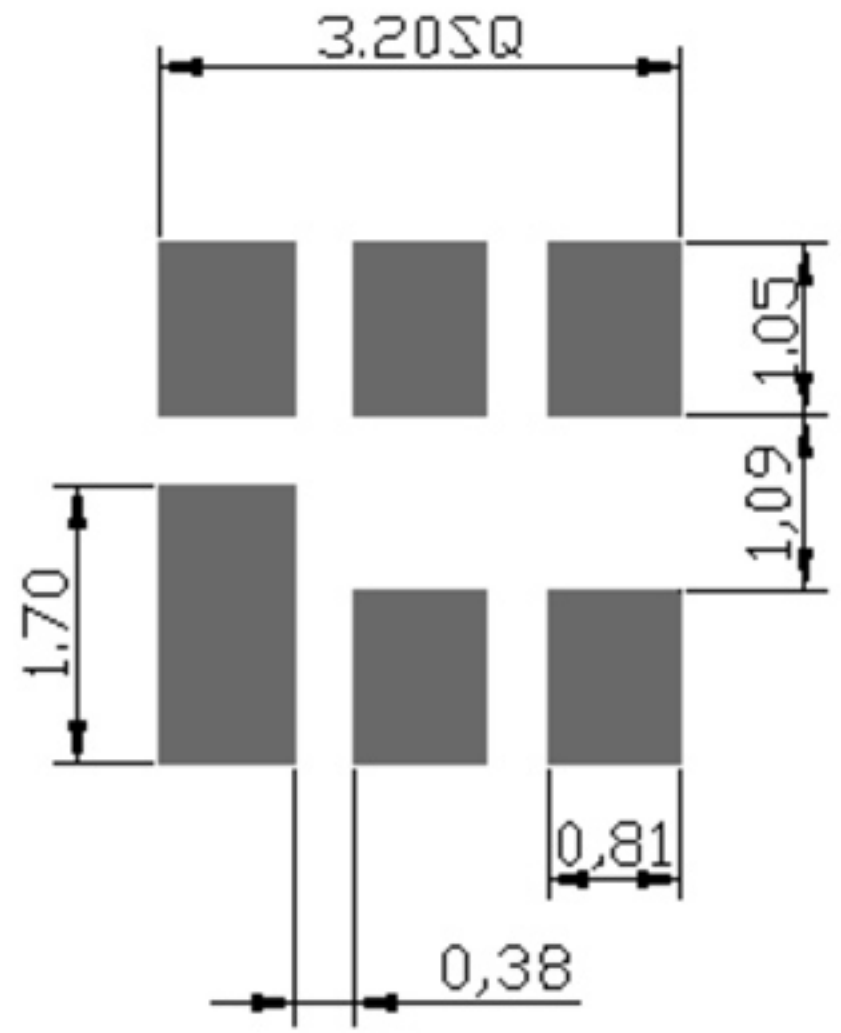


△ : Year Code (2009->9, 2010->0, ..., 2018->8)
 □ : Date Code (Follow the table from planner each year)

B: Input
E: Output
A, C, D, F: Ground
Unit: mm

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. PCB FOOTPRINT:



G. PACKING:

- 1. REEL DIMENSION
(Please refer to FR-75D10 for packing quantity)

