

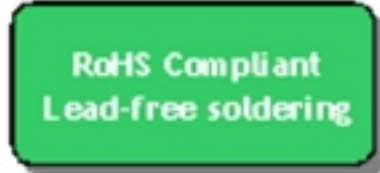
SAW Filter 1176.45 MHz (BW 20.44 MHz) SMD 3.0x3.0mm

MODEL NO.: TA2493B

REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40 °C to +105 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitive Level: Level 1 (MSL1)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

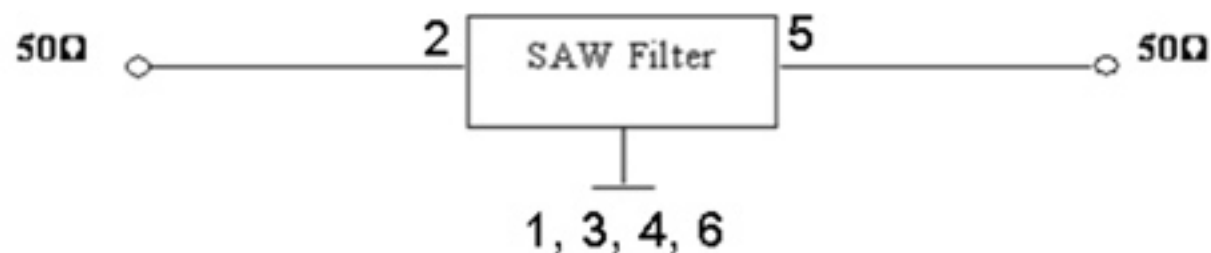
Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	1176.45	-
Insertion Loss (1166.23 ~ 1186.67 MHz)	dB	-	1.9	4.0
Amplitude Ripple (1166.23 ~ 1186.67 MHz)	dB	-	0.9	2.0
Group Delay Ripple (1166.23 ~ 1186.67 MHz)	ns	-	16	25
Attenuation				
10 ~ 1100 MHz	dB	25	37	-
1149.34 MHz	dB	12	26	-
1155 MHz	dB	4	14	-
1195 MHz	dB	3	13	-
1200.45 MHz	dB	12	26	-
1210 ~ 2000 MHz	dB	25	41	-

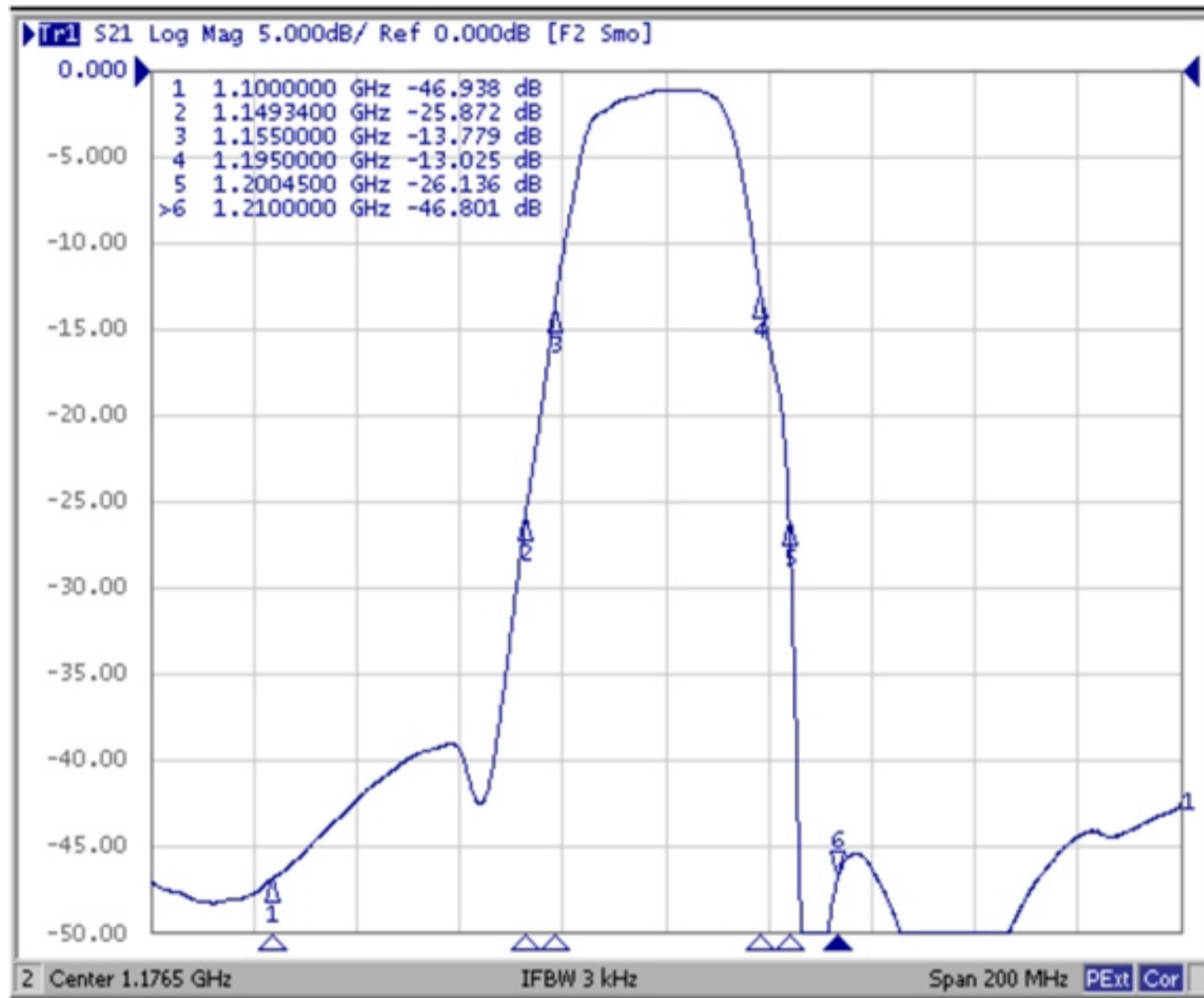
C. ELECTRICAL CHARACTERISTICS:

HP Network analyzer

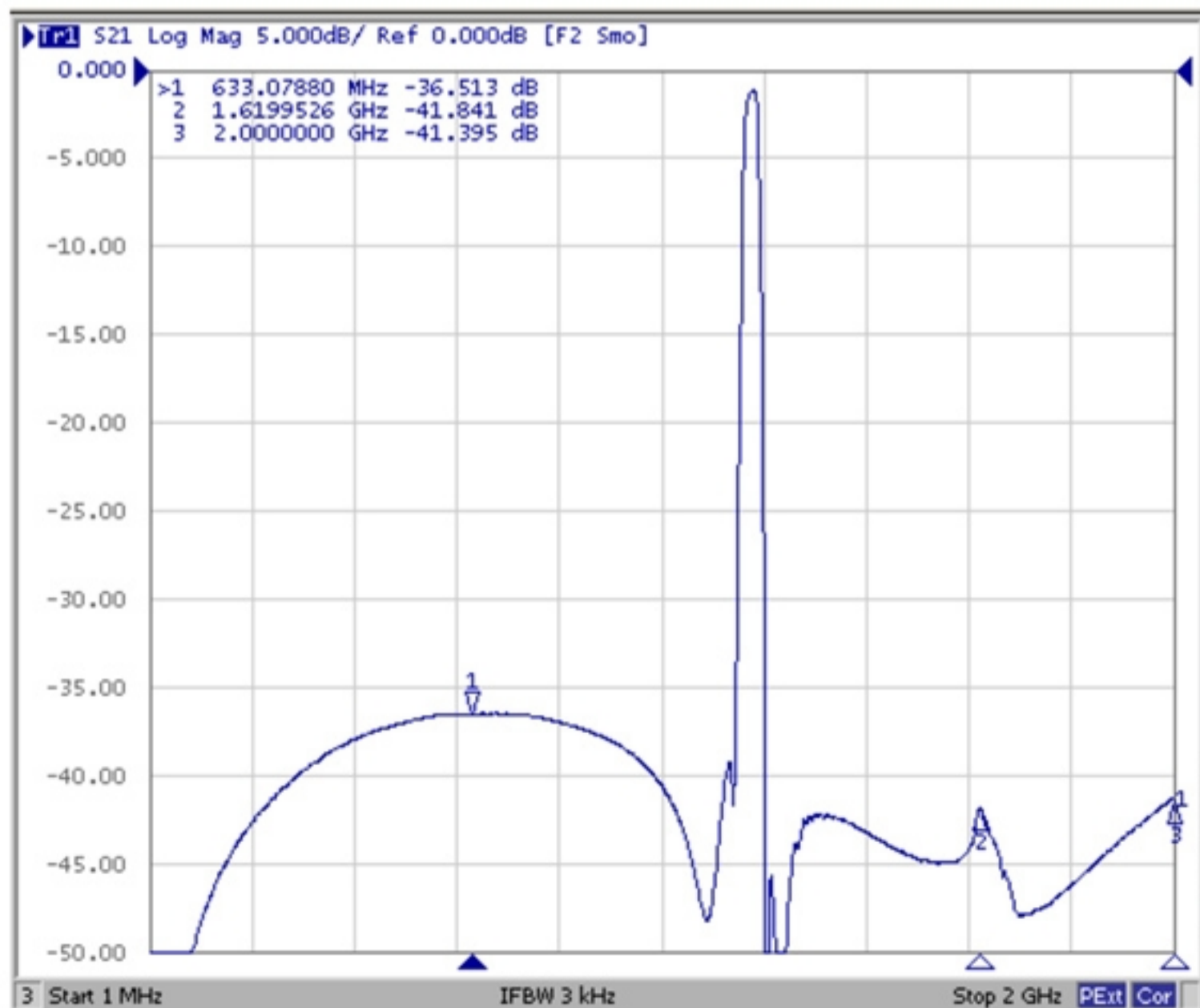


D. Frequency Characteristics:

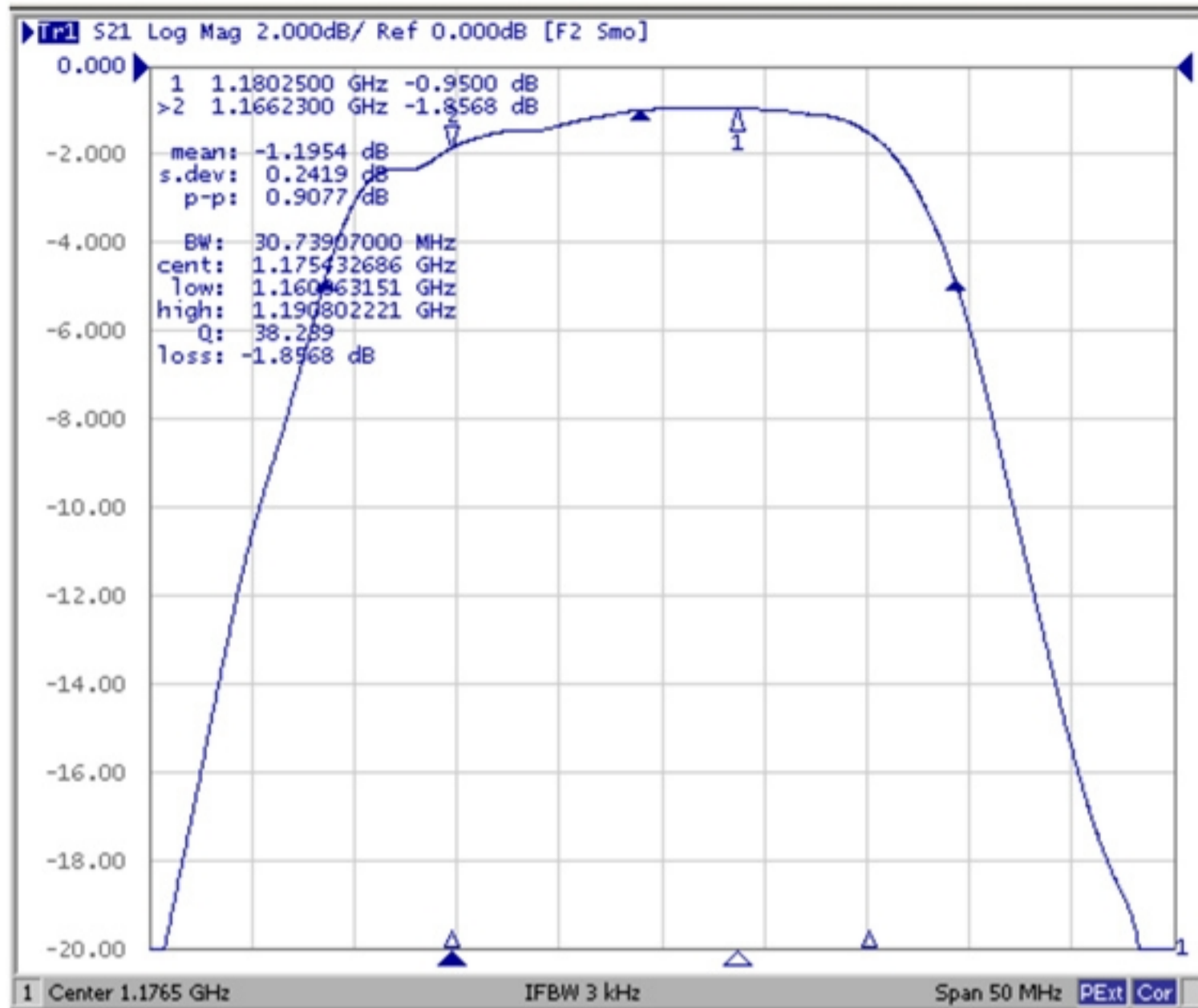
Span 200 MHz



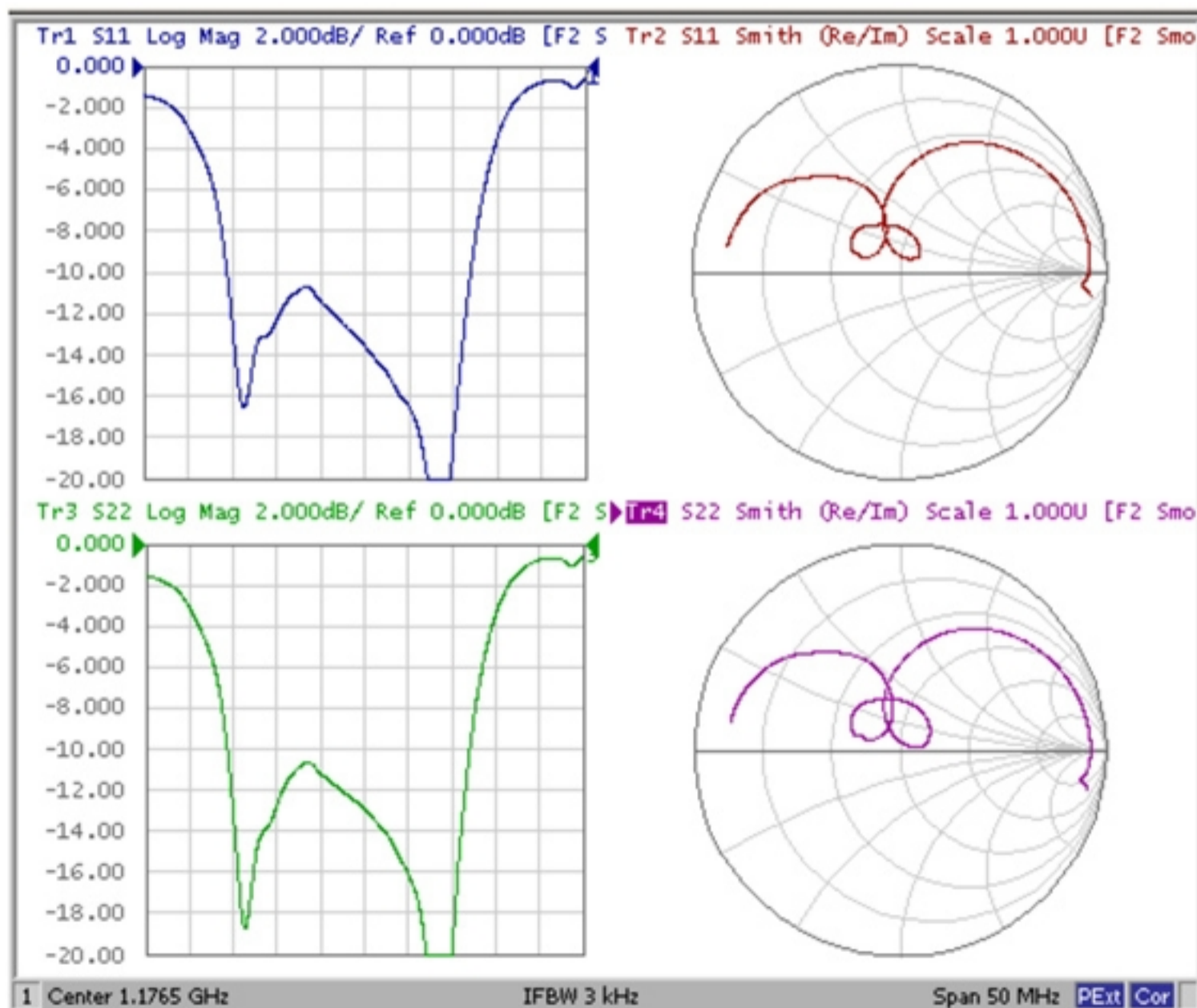
Span 2000 MHz



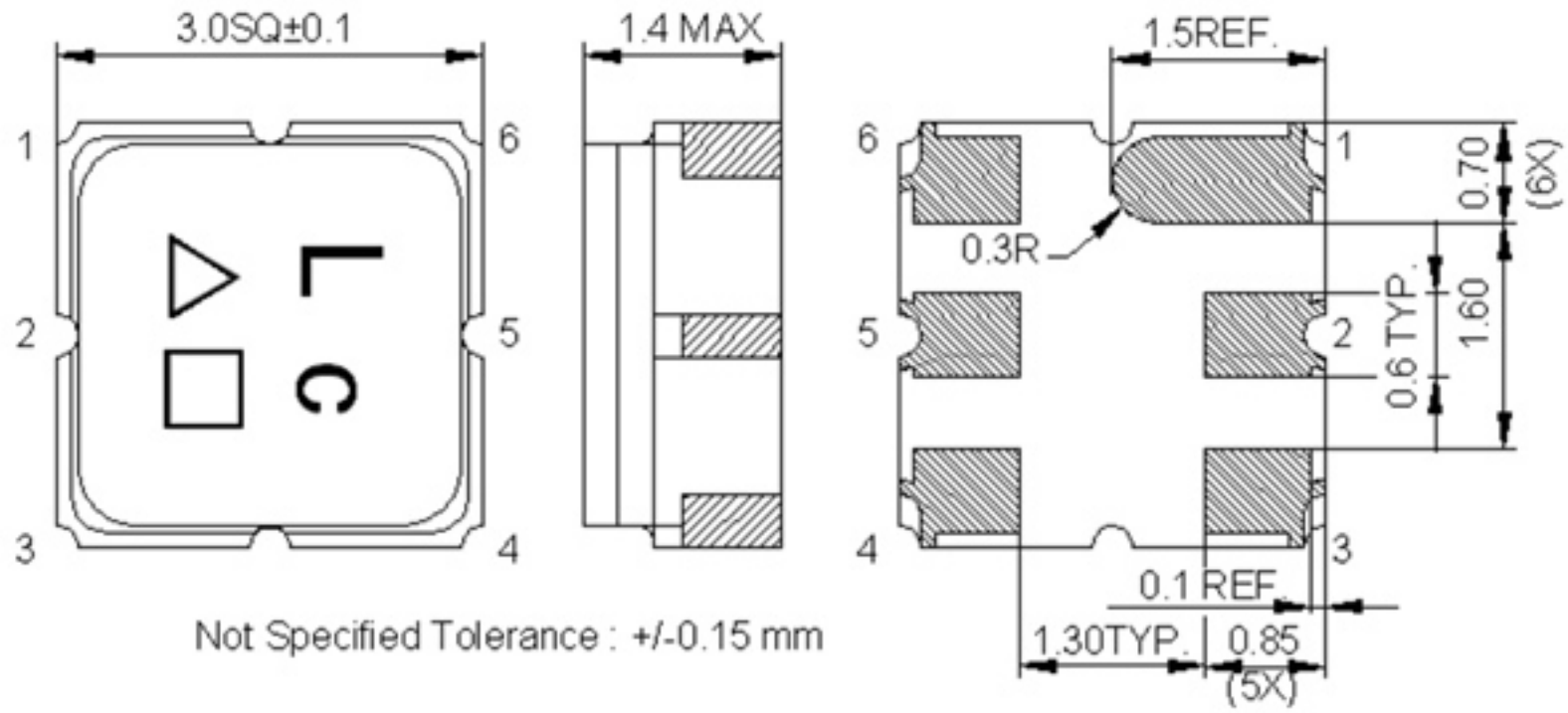
Span 50 MHz



Reflective characteristics



E. MEASUREMENT CIRCUIT:



#2: Input

#5: Output

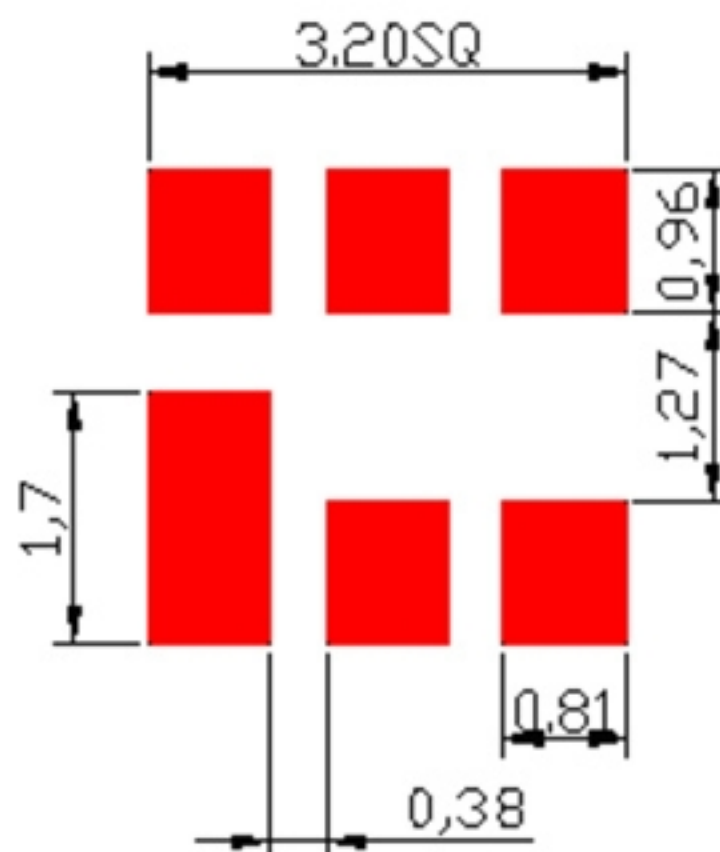
#1, 3, 4, 6: Ground

Δ : Year Code (2009->9, 2010->0, ..., 2018->8)

\square : Date Code (Follow the table from planner each year)

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

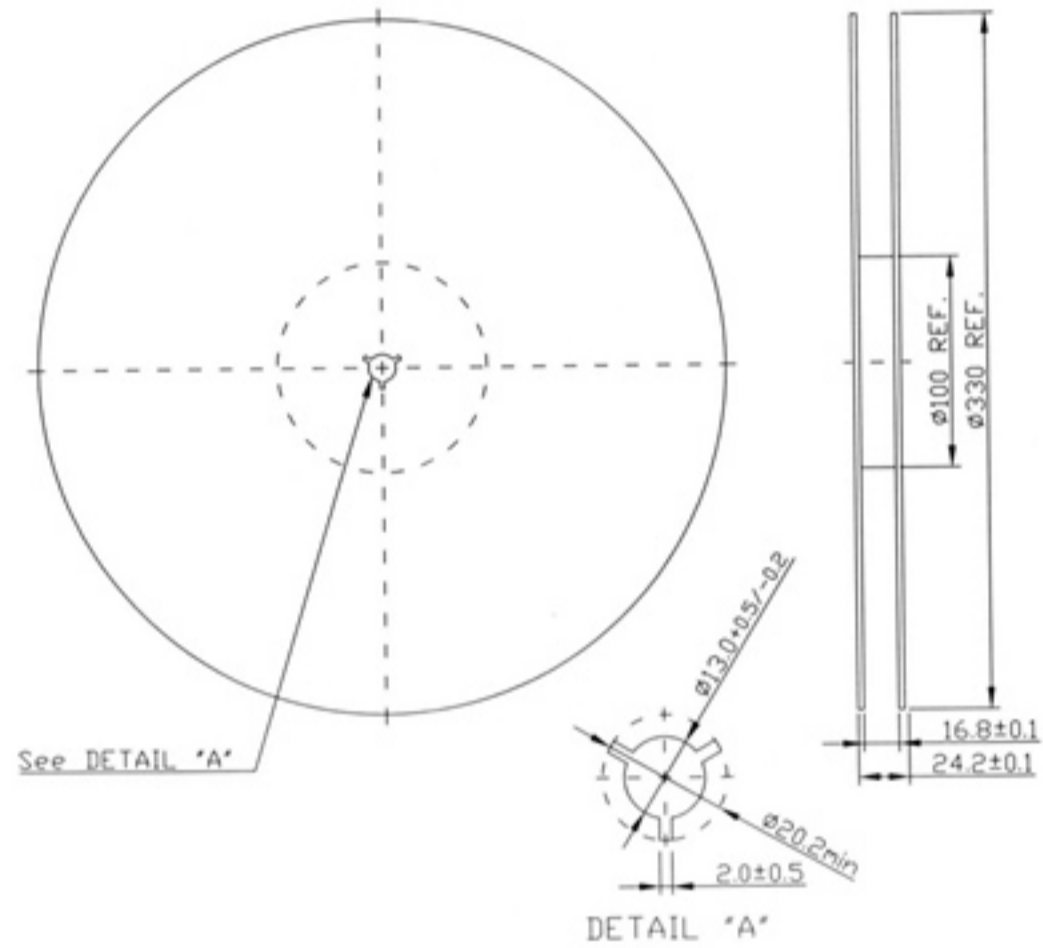
F. PCB Footprint



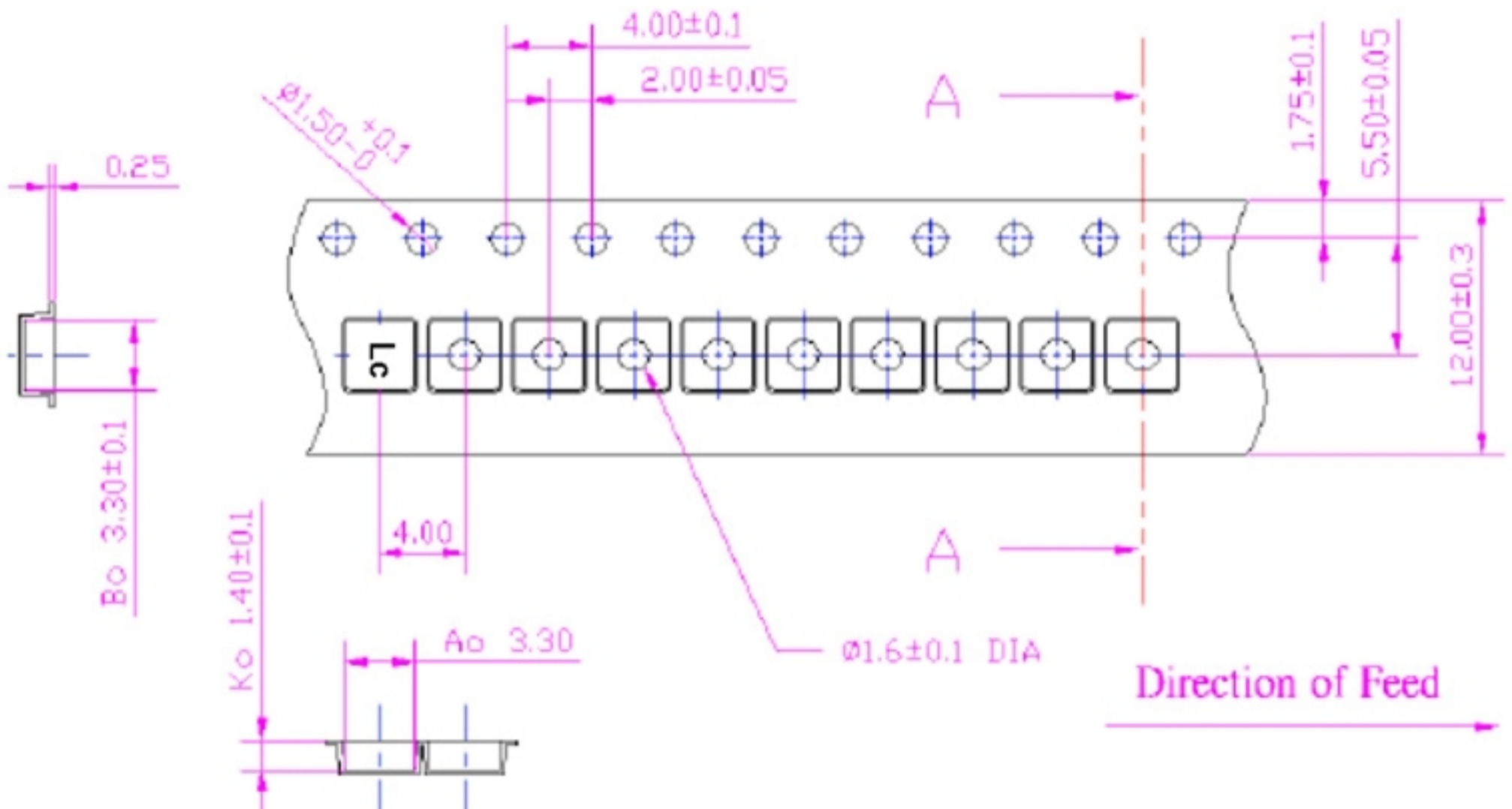
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ for $60\sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50\sim 80$ seconds and at $260^{\circ}\text{C} + 0/-5^{\circ}\text{C}$ peak ($20\sim 40$ sec).
4. Time: 2 times.

