

JAN. 31, 1996

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SPECIFICATION

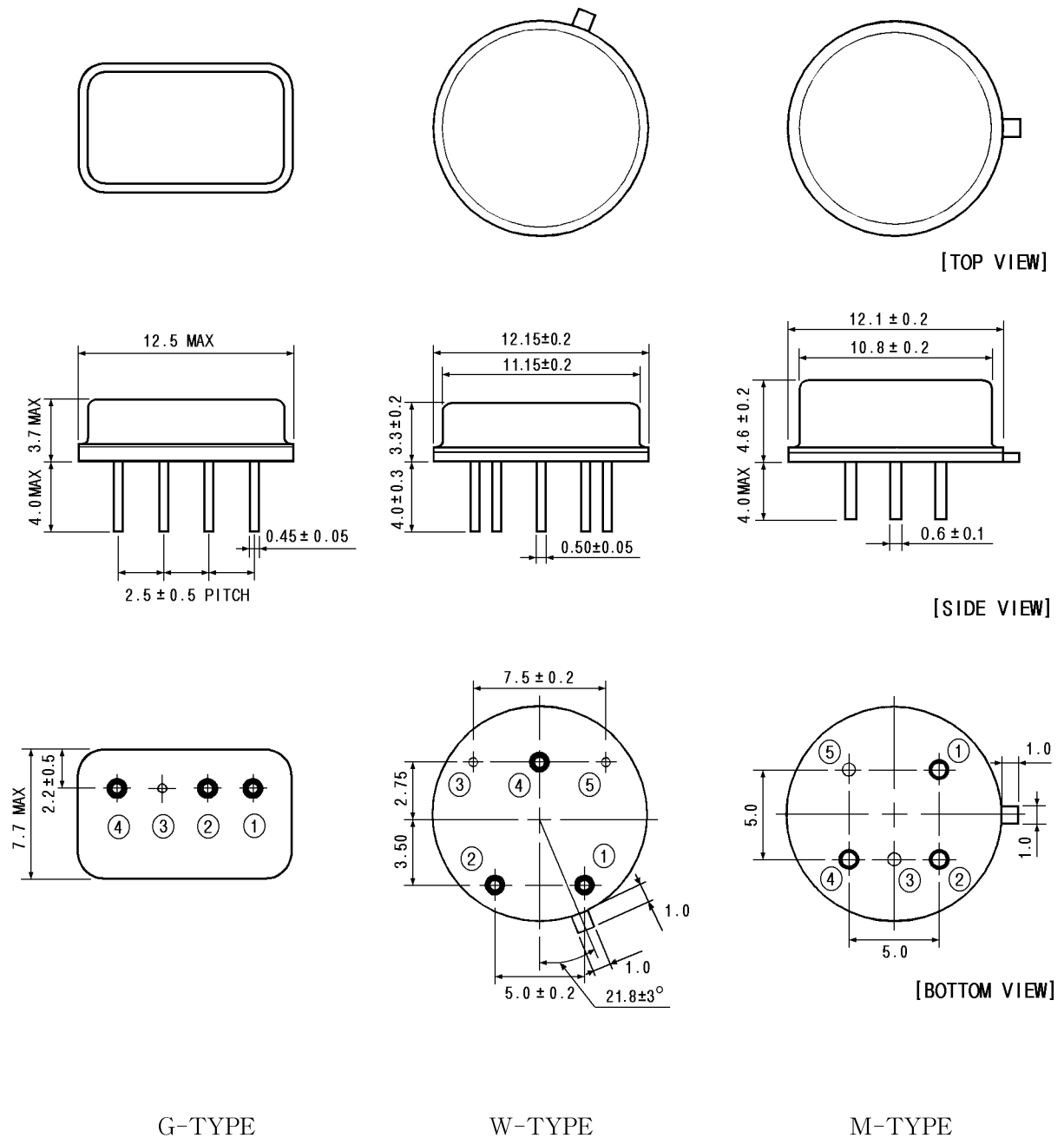
MODEL: 2327D□

SURFACE ACOUSTIC WAVE FILTER

PRELIMINARY

SAMSUNG ELECTRO-MECHANICS CO., LTD.
314. MAETAN3-DONG, PALDAL-KU,
SUWON-SI, KYUNGKI-DO, KOREA, 442-743

1. OUTLINE DRAWING AND DIMENSION



PIN NO.	FUNCTION
①	OUTPUT
②	OUTPUT
③	GROUND
④	INPUT
⑤	GROUND

2. MARKING

SF 505	SF	SF
2327DG	2327DW	2327DM
	505	505

Color : Black or Red

Model No. : 2327DG (G-type Package)

2327DW (W-type Package)

2327DM (M-type Package)

Lot No. : 505

3. PERFORMANCE**3-1. APPLICATION**

PAL E/L System

Video Frequency : 32.7MHz

3-2. MAXIMUM RATING

(Ta = 20℃)

CHARACTERISTICS		RATING	UNITS
Input signal voltage		5	V _{p-p}
DC voltage	between inputs	3	V
	between outputs		
	between others	15	
AC voltage : 50~60 Hz		10	V _{p-p}
Operating temperature range		-20 ~ +70	℃
Storage temperature range		-55 ~ +85	℃

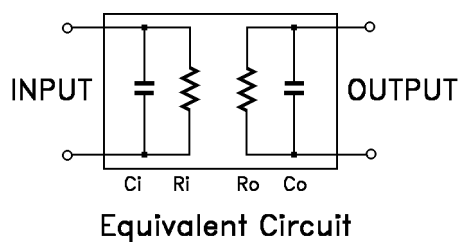
3-3. ELECTRICAL CHARACTERISTICS

3-3-1. TABLE

(Ta=20℃)

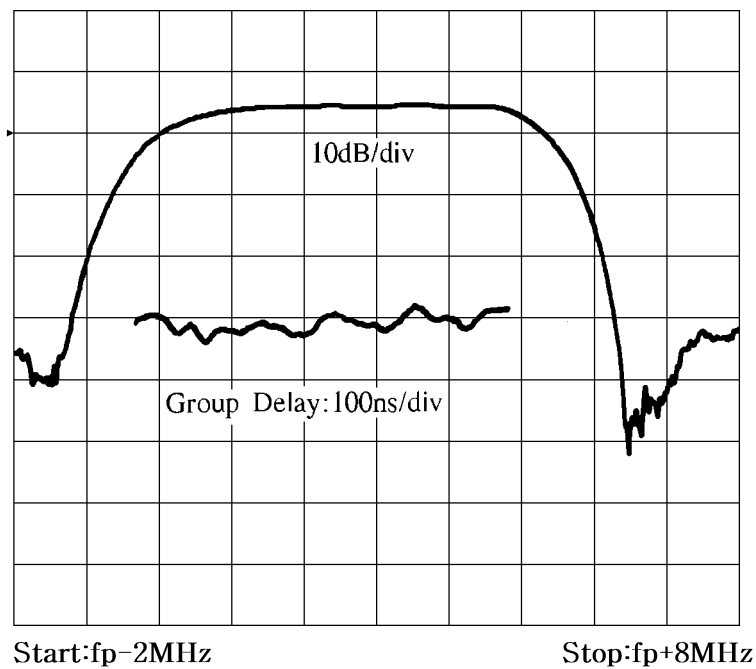
CHARACTERISTICS		Freq. (MHz)	Specification				Test Fixture
			Upper	Nominal	Lower	Units	
Insertion Loss		peak	45	43		dB	No. 2
Relative Amplitude (Ref.:fp)	adj.sound	31.2 fp-1.5	-35	-40		dB	No. 1
	picture	32.7 fp		0			
	peak		5.8	4.3	2.8		
	color	37.13 fp+4.43	5.8	4.3	2.8		
	sound	38.2 fp+5.5		-1.			
	adj.picture-1	39.2 fp+6.5	-35	-40			
	adj.picture-2	40.7 fp+8	-30	-40			
Spurious Level (Ref.:peak)		23.2 ~ 31.2	-30	-35			
		40.7 ~ 48.7	-30	-35			
Bandpass Ripple		32.7 ~ 37.13	0.6	0.2			
Group Delay Ripple(p-p)		32.7 ~ 37.13	100			nsec	
Temperature Coefficient of Frequency Response		-20 ~ 70 ℃		-25	-30	ppm/℃	No. 2
Impedance	R _i /C _i	35.2		10/12.5		kΩ/pF	
	R _o /C _o	35.2		5/11.5		kΩ/pF	

Impedance equivalent circuit is shown below.

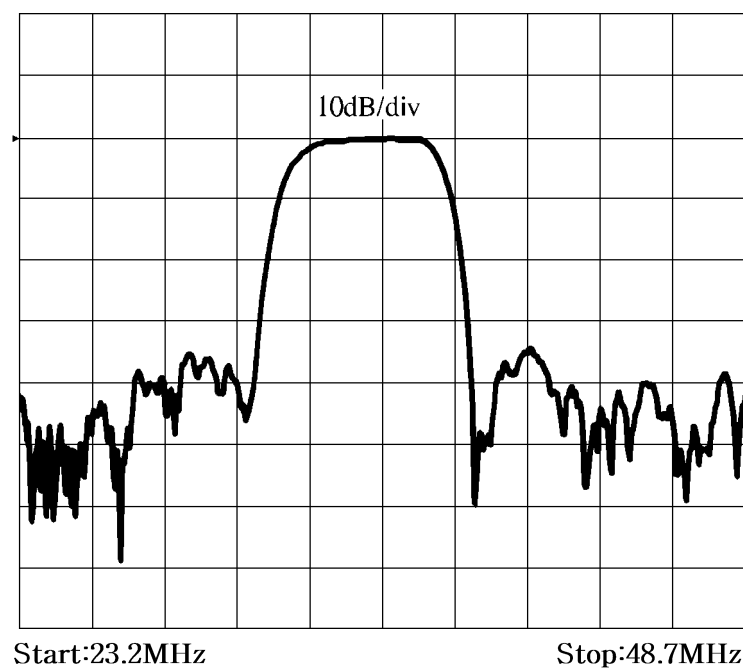


3-3-2. GRAPH

Passband Characteristics

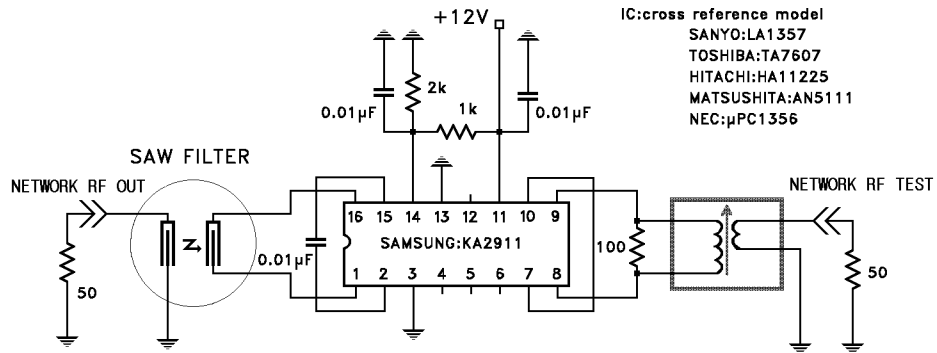


Spurious Characteristics

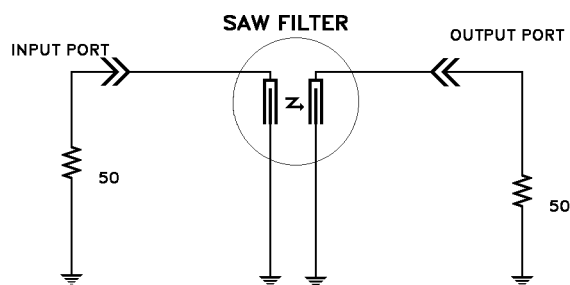


3-3-3. TEST FIXTURE

No. 1



No. 2



4. RELIABILITY

ITEM	TEST CONDITION	LIMIT
4-1. LIFE TEST		
High Temperature Operation	Ta=+70±2℃, 500h, DC 3V, Output ports load.	insertion loss : initial ±1.5dB amplitude response : (fs,fc,peak) initial ±1.0dB (with test fixture on No. 1)
High Temperature Exposure	Tstg=+85±2℃, 500h	
Low Temperature Exposure	Ta=-40±2℃, 500h	
Moisture Resistance	Ta=+40±2℃, RH 90~95%, 500h	
Salt Spray	After soldering, 5% salt solution, 24h	
4-2. HEAT CYCLE, SOLDERING TEST		
Temperature Cycle	(-20℃,30min→25℃,5min→80℃,30min→25℃,5min) 5 cycle	

