



Eyal Microwave Ltd.

Phone: 972-9-7499100 Fax: 972-9-7493669

Kibbutz Eyal D.N. Hasharon Hatichon 45840 Israel

Web: www.eyal-emi.com Email: emi@eyal-emi.com



Revision			
REV	ECN	DATE	APP' D
EO1	INIT	14.7.02	
EO2			
EO3			
EO4			
EO5			
EO6			
EO7			
EO8			
EO9			
E10			

**SPECIFICATION FOR**

**2 X 10 CHANNEL**

**SWITCHED BANK FILTERS**

Frequency rang: 20÷3000MHz

**P/N: SBF-2458-00**

REVISION	REV																				
	SHEET	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STATUS	REV																				
	SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	REV																				
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

	ENG. APPROVAL	DATE	<i>EYAL</i>	
	I.Ladviz	14.7.02		
	Q.A. APPROVAL	DATE	TITLE: SPEC. FOR SBF-2458-00	
	M. Cohen	7.8.02		
		no. SW-2458	Rev E01	sheet 1 of 4



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## Electrical specification:

- FREQUENCY RANGE: ..... 20÷3000 MHz
- NO OF CHANNELS: ..... 10
- 1 dB BW PER CHANNEL:
  1. Frq range: 20÷35 Mhz insertion loss: 4.5dB max @ C.F
  2. Frq range: 35÷55 Mhz insertion loss: 4.5dB max @ C.F
  3. Frq range: 55÷95 Mhz insertion loss: 4.5dB max @ C.F
  4. Frq range: 95÷155 Mhz insertion loss: 4.5dB max @ C.F
  5. Frq range: 155÷260 Mhz insertion loss: 4.5dB max @ C.F
  6. Frq range: 260÷430 Mhz insertion loss: 4.5dB max @ C.F
  7. Frq range: 430÷720 Mhz insertion loss: 4.5dB max @ C.F
  8. Frq range: 720÷1200 Mhz insertion loss: 5.0dB max @ C.F
  9. Frq range: 1200÷2000Mhz insertion loss: 5.0dB max @ C.F
  10. Frq range: 2000÷3000Mhz insertion loss: 5.0dB max @ C.F

### • **Filters Rejection**

Channel No.	Frequency MHz	Rejection dB	
1	100÷1000	50	
	1000÷4000	70	
2	150÷1000	50	
	1000÷4000	70	
3	250÷1500	50	
	1500÷4000	70	
4	20÷40	50	
	400÷1500	50	
	1500÷4000	70	
5	20÷70	50	
	700÷1500	50	
	1500÷4000	70	
6	20÷130	50	
	900÷1500	50	
	1500÷4000	70	
7	20÷200	50	
	1500÷4000	60	
8	20÷300	50	
	2500÷4000	70	
9	20÷500	50	
10	20÷900	50	



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**Specification continues:**

- Rejection CH 1 ÷ 9 @ 2X F low -25dB min  
@ 0.5X F high -25dB min
- Rejection @ 4000÷6500 MHz  
From Ch 1 to Ch 7 .... 40 dB min  
From Ch 8 to Ch 10 ...60 dB min
- PASSBAND RIPPEL: .....@ CH 1÷8 1.3 dB max  
@ CH 9 1.5 dB max  
@ CH 10 1.8 dB max
- I P2: ..... +55 dBm min
- I P3: ..... +20 dBm min
- SWICHING TIME: ..... 10usec max
- POWER HANDLING: ..... operating ..... +10dBm max  
: ..... Survival ..... +30dBm max
- VSWR: ..... 2.0:1 max
- POWER SUPPLY: ..... +5.0V / 500mA  
-12.0V / 160mA
- TTL CONTROL LOGIC: with 4 bit decoder  
"0000" ..... ch 1 on  
"0001" ..... ch 2 on  
"0010" ..... ch 3 on  
"0011" ..... ch 4 on  
"0100" ..... ch 5 on  
"0101" ..... ch 6 on  
"0110" ..... ch 7 on  
"0111" ..... ch 8 on  
"1000" ..... ch 9 on  
"1001" ..... ch 10 on
- BIT CONTROL LOGIC: . .non inverting ("0"-iso ; "1"-i.l)
- GENERAL:  
Bit switch type: . Reflective  
RF connectors: . . . SMA (f)  
TEMEPRATURE: . . Operating: -30°C ÷ +70°C  
Storage: -30°C ÷ +85°C

