

ROHMProducts
Semiconductor ICType
BA4114Page
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STRUCTURE Silicon Monolithic Integrated Circuit

TYPE BA4114

PRODUCT SERIES Low power FM IF

PACKAGE OUTLINES Figure 1 (Plastic Mold)

BLOCK DIAGRAM Figure 2

FUNCTIONS

- The local oscillator, mixer, IF amplifier, quadrature detector, filter -amplifier, squelch, scancontrol, and squelch switch are incorporated.
- 60MHZ can be received.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

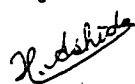
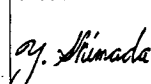
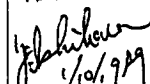
Parameter	Symbol	Conditions	Limits	Unit
Supply voltage	V _{CC}		8.0	V
Power dissipation	P _d		※ 550	mW
Operating temperature	T _{OPR}		-25 ~ +75	°C
Storage temperature	T _{STG}		-55 ~ +125	°C

※Derating is done at 5.5 mW/°C for operation above Ta=25°C

OPERATING SUPPLY VOLTAGE RANGE (Ta=25°C)

Symbol	Supply voltage	Unit
V _{CC}	1.8 ~ 7.0	V

Design

Design 	Check 	Approval  1/10/89	Date DEC/20/'88	Specification
ROHM CO., LTD.				Specification No.

A4 63.10 (1×100×10) Y

PACKAGE OUTLINES (mm)

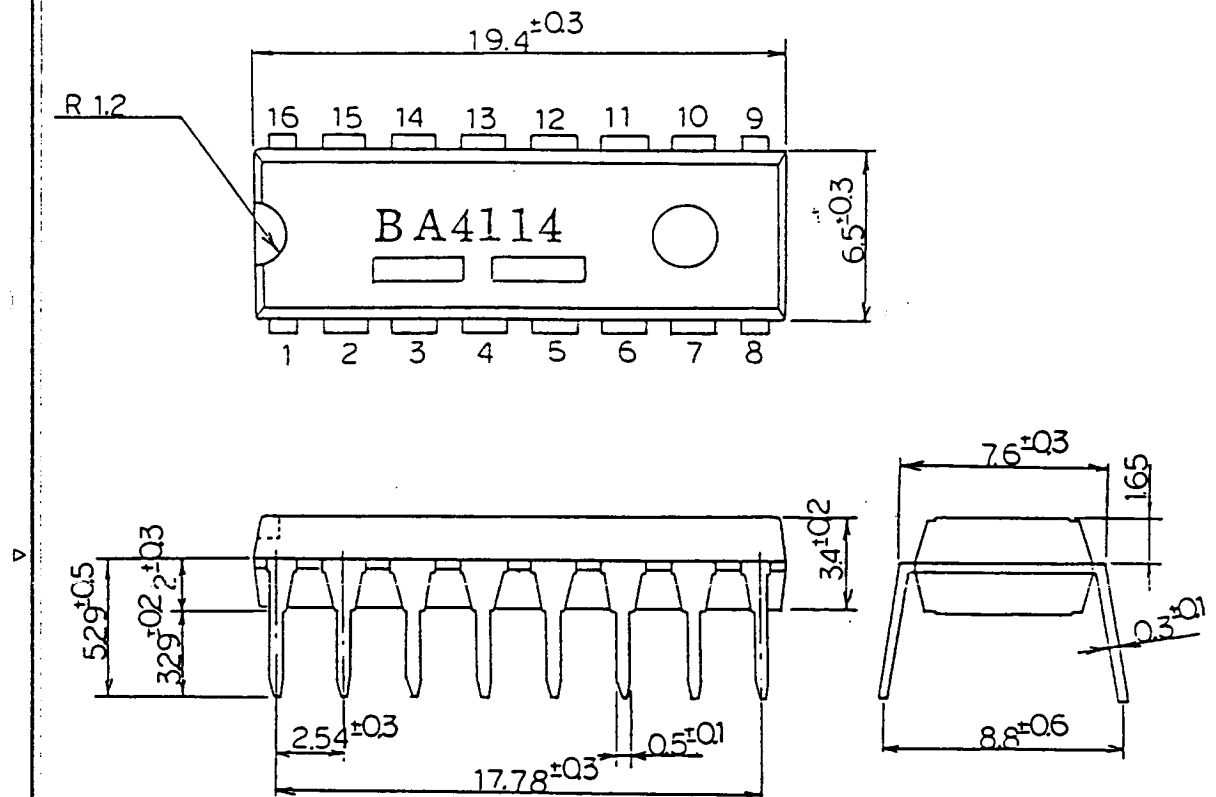


Figure 1

Date	DEV/20/'88	Specification
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BLOCK DIAGRAM

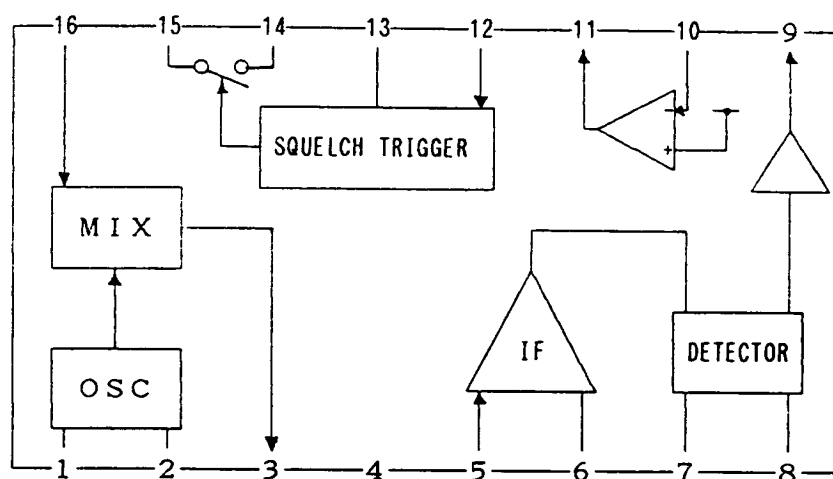


Figure 2

pin no	pin denomination	pin no	pin denomination	pin no	pin denomination
1	Oscillator	11	Filter amplifier output		
2	Oscillator	12	Squelch input		
3	Mixer output	13	Scan control		
4	V _{cc}	14	Audio mute		
5	IF amplifier input	15	GND		
6	IF amplifier bypass	16	Mixer input		
7	IF amplifier bypass				
8	Detector coil				
9	Audio output				
10	Filter amplifier input				

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TEST CIRCUIT

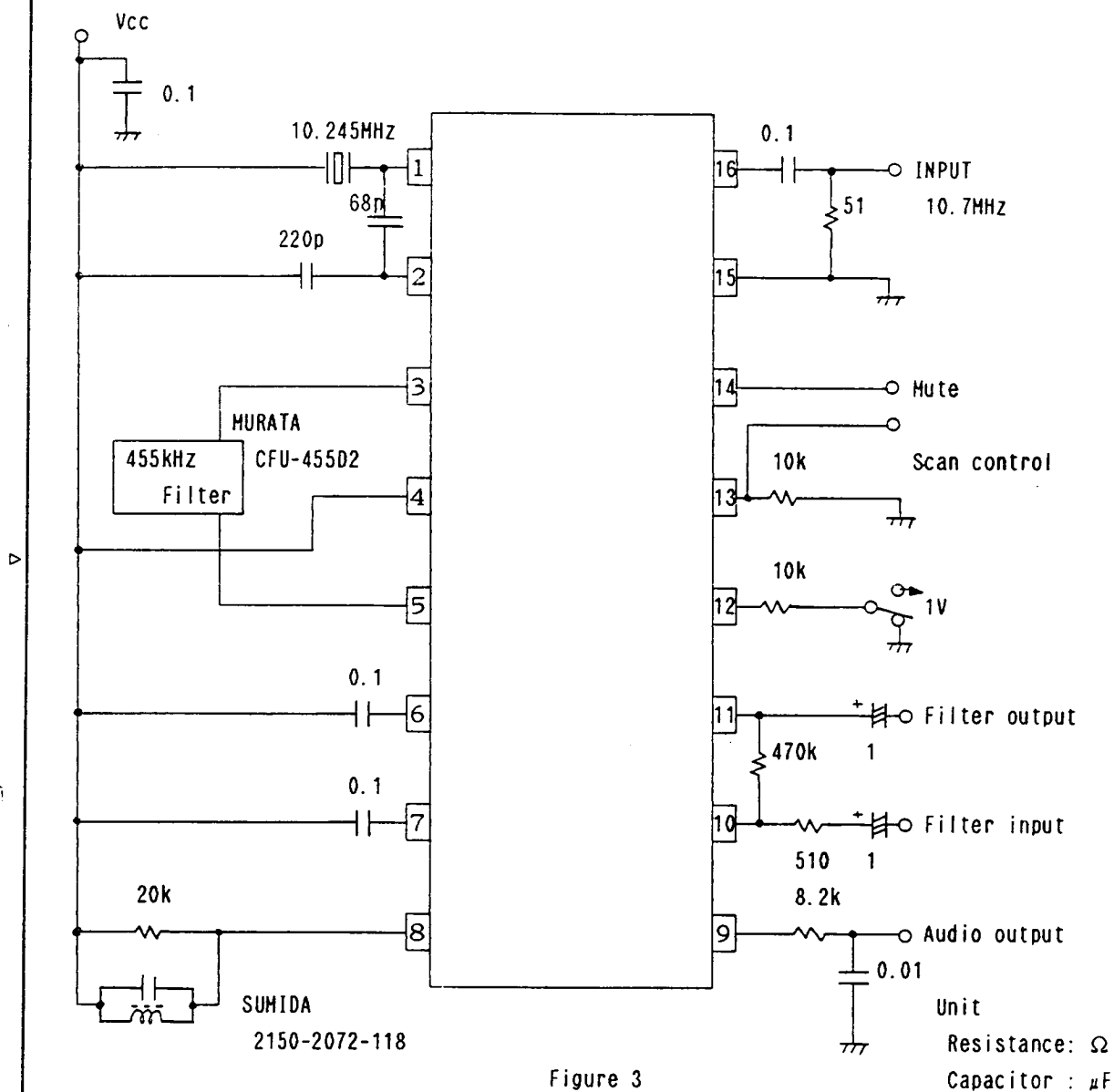


Figure 3

Date	DEC/20/'88	Specification
ROHM CO., LTD.		Specification No.