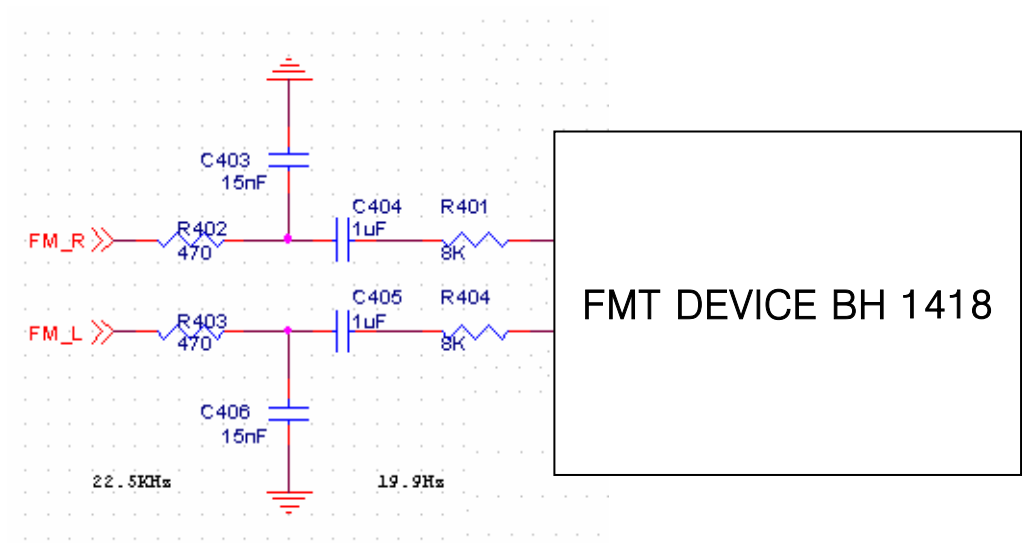


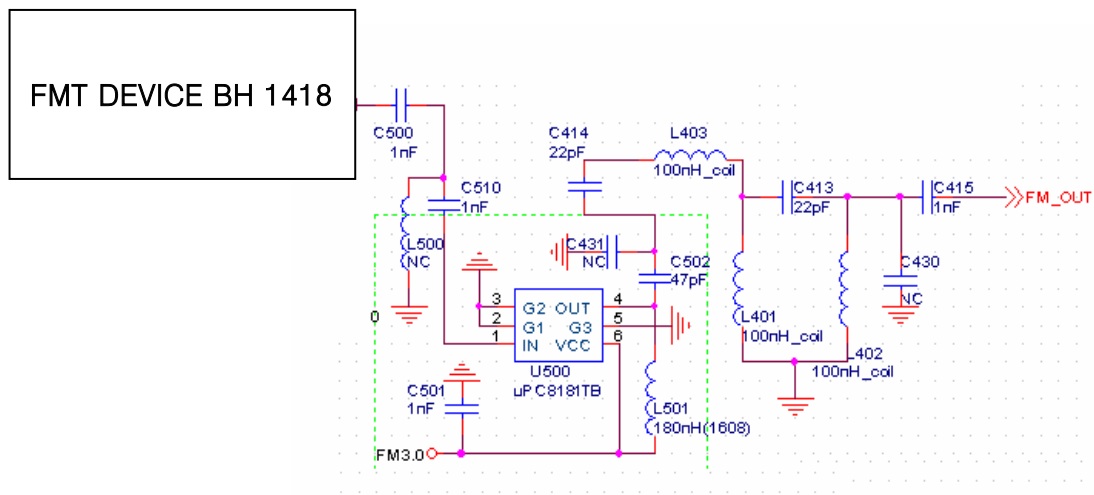
The schematic diagram illustrates the electrical connections for the FM receiver circuit. Key components and their connections include:

- Capacitors:** C401 (100pF), C402 (2.2nF), C403 (15nF), C404 (1uF), C405 (10uF/10V), C406 (15nF), C407 (2.2nF), C408 (100pF), C409 (NC), C410 (33pF), C411 (33pF), C412 (47nF), C413 (1k), C414 (72nH), C415 (1nF), C416 (NC), C417 (220pF), C418 (10nF), C419 (47pF), C420 (1uF), C421 (1uF), C422 (100nF), C423 (100nF), C424 (1k), C425 (100nF), C426 (470pF), C427 (47), C428 (350), C429 (47), C430 (NC), C431 (NC), C432 (100nH_coil), C433 (100nH_coil), C434 (100nH_coil), C435 (1nF), C436 (1nF), C437 (1nF), C438 (1nF), C439 (1nF), C440 (1nF), C441 (1nF), C442 (1nF), C443 (1nF), C444 (1nF), C445 (1nF), C446 (1nF), C447 (1nF), C448 (1nF), C449 (1nF), C450 (1nF), C451 (1nF), C452 (1nF), C453 (1nF), C454 (1nF), C455 (1nF), C456 (1nF), C457 (1nF), C458 (1nF), C459 (1nF), C460 (1nF), C461 (1nF), C462 (1nF), C463 (1nF), C464 (1nF), C465 (1nF), C466 (1nF), C467 (1nF), C468 (1nF), C469 (1nF), C470 (1nF), C471 (1nF), C472 (1nF), C473 (1nF), C474 (1nF), C475 (1nF), C476 (1nF), C477 (1nF), C478 (1nF), C479 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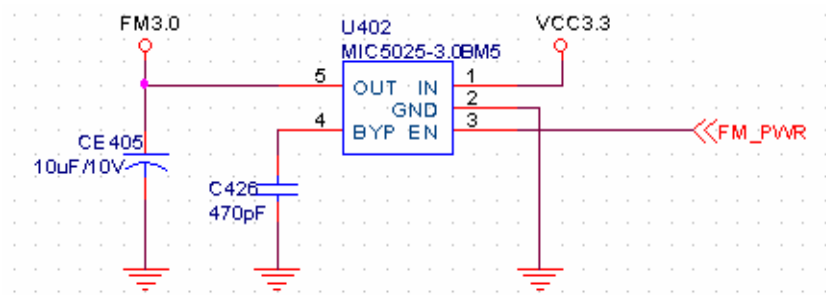
■ SOUND IN PUT CONNECTOR TO FMT DEVICE INTERFACE SECTION



■ FMT DEVIEC OUTPUT AND FILTER SECTION

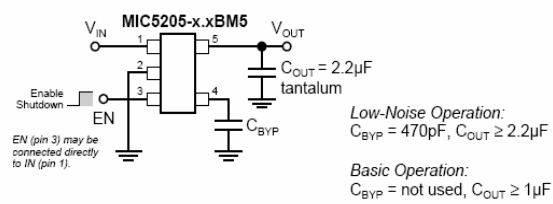


■ FMT POWER SECTION



VCC3.3 INPUT 3.3V
 FM3.0 OUTPUT 3.0V
 LDO IS 150mA LOW-Noise LDO Regulator

Typical Application



Ultra-Low-Noise Regulator Application

■ FMT SPEC

TYPE

FEATURES

BH1418KN

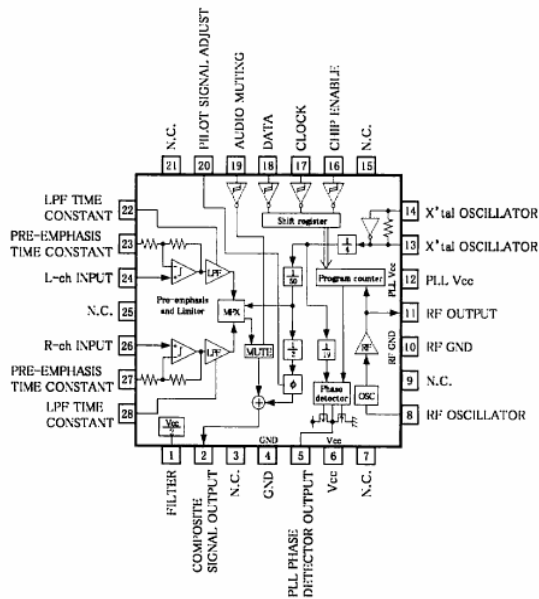
- It is possible to attempt to improve a timbre because it has the pre-emphasis circuit, limiter circuit and low-pass filter circuit.
- Built-in the pilot-tone system FM stereo modulator circuit.
- The transmission frequency is stable because it has PLL system FM transmitter circuit.
- PLL data input (CE, CK, DA) by serial input.
- It is possible for the monaural mode.
- Built-in the sound muting circuit.

○ Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit | Conditions |
|---------------------------------|--------------------|----------------|------|--------------------|
| Supply voltage | Vcc | +7.0 | V | Pin 6, 12 |
| Data input voltage | V _{IN-D} | -0.3 ~ Vcc+0.3 | V | Pin 16, 17, 18, 19 |
| Phase comparator output voltage | V _{OUT-P} | -0.3 ~ Vcc+0.3 | V | Pin 5 |
| Power dissipation | Pd | 370 | mW | (*1) |
| Storage temperature | Tstg | -55 ~ +125 | °C | |

(*1) To use at a temperature higher than Ta=25°C, derate 3.7mW per 1°C.

○ Block Diagram



○ Pin No. - Pin Name

| No. | Name | No. | Name |
|-----|---------------------------|-----|----------------------------|
| 1 | FILTER | 15 | N.C. |
| 2 | COMPOSITE SIGNAL OUTPUT | 16 | CHIP ENABLE |
| 3 | N.C. | 17 | CLOCK |
| 4 | GND | 18 | DATA |
| 5 | PLL PHASE DETECTOR OUTPUT | 19 | AUDIO MUTING |
| 6 | Vcc | 20 | PILOT SIGNAL ADJUST |
| 7 | N.C. | 21 | N.C. |
| 8 | RF OSCILLATOR | 22 | LPF TIME CONSTANT |
| 9 | N.C. | 23 | PRE-EMPHASIS TIME CONSTANT |
| 10 | RF GND | 24 | L-ch INPUT |
| 11 | RF OUTPUT | 25 | N.C. |
| 12 | PLL Vcc | 26 | R-ch INPUT |
| 13 | X'tal OSCILLATOR | 27 | PRE-EMPHASIS TIME CONSTANT |
| 14 | X'tal OSCILLATOR | 28 | LPF TIME CONSTANT |