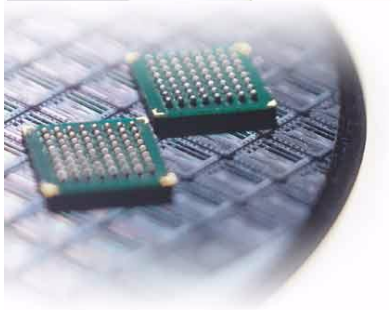
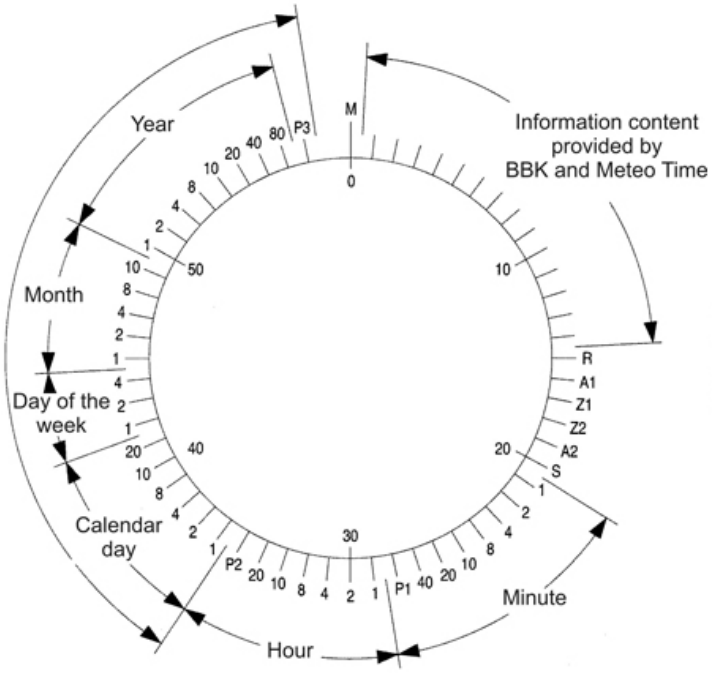
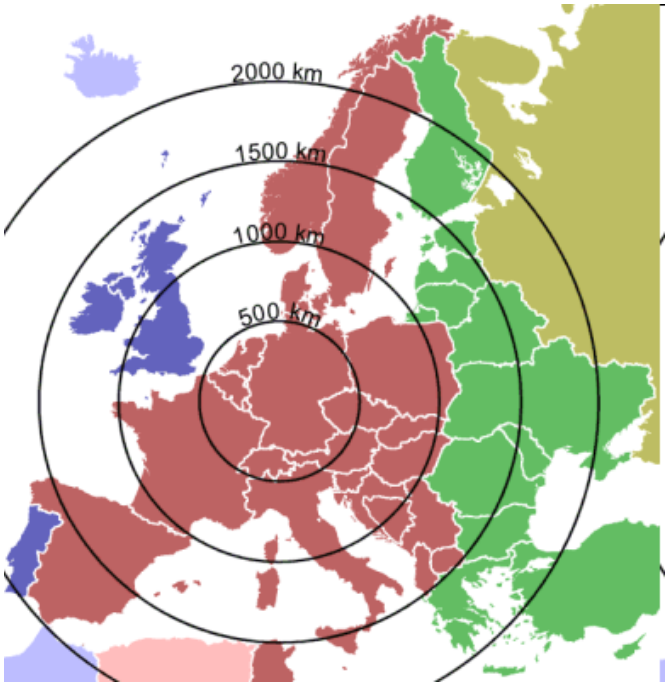
DCF77 Time Code



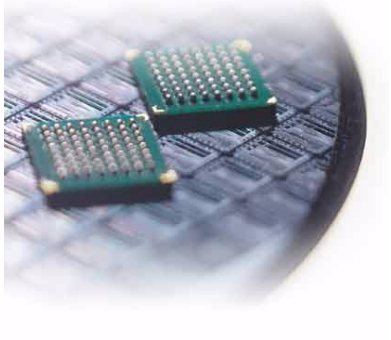
- http://www.ptb.de/en/org/4/44/442/dcf77_kode_e.htm
- http://en.wikipedia.org/wiki/DCF77
- Binary 0 = 100ms pulse, binary 1 = 200ms pulse, minute marker = no pulse, 25% AM modulation



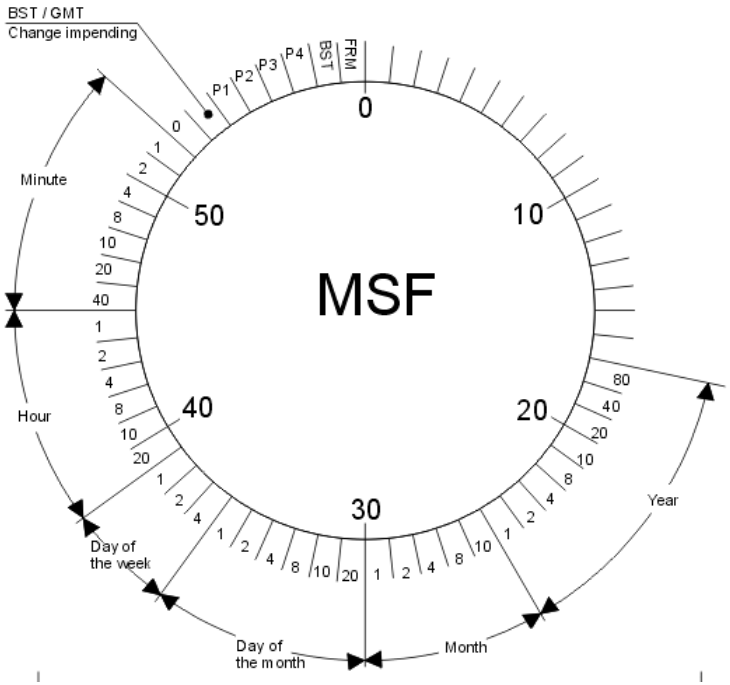


Tel：15815501712 QQ：273429043

MSF Time Code



- http://www.npl.co.uk/science-technology/time-frequency/time/products-and-services/msf-radio-time-signal
- Binary 0 = 100ms pulse, binary 1 = 200ms pulse, marker = 500ms pulse, 0% AM modulation (on/off)



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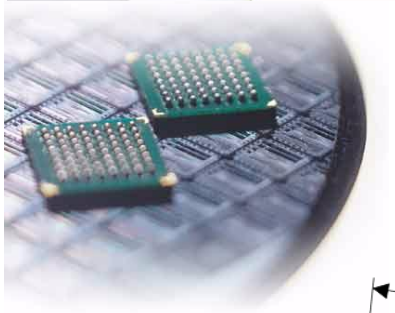
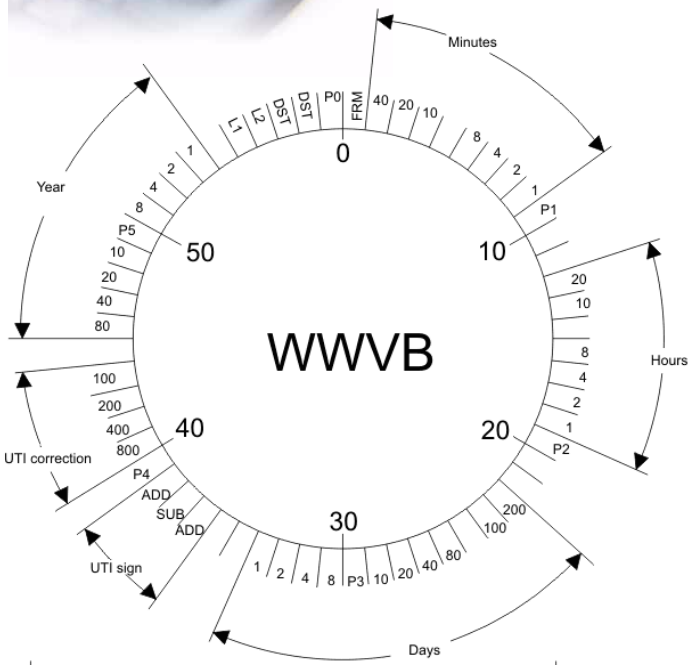
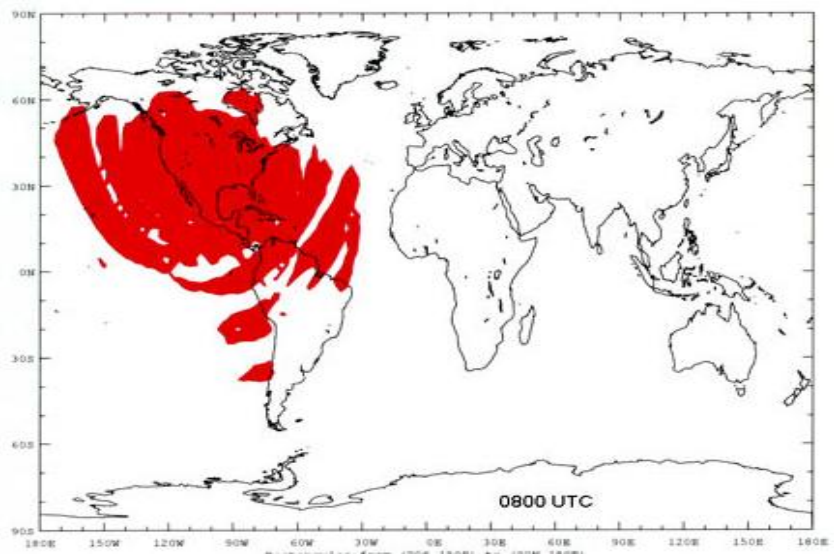
WWVB Time Code



- http://www.nist.gov/pml/div688/grp40/wwvb.cfm
- http://en.wikipedia.org/wiki/WWVB



Area with signal strength >100uV/m



NIST Recomendations for WWVB:

"We recommend that RCC products should be sensitive enough to successfully synchronize to signals from WWVB with a field strength of 50 μV/m"

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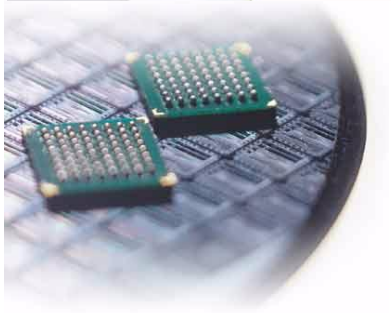
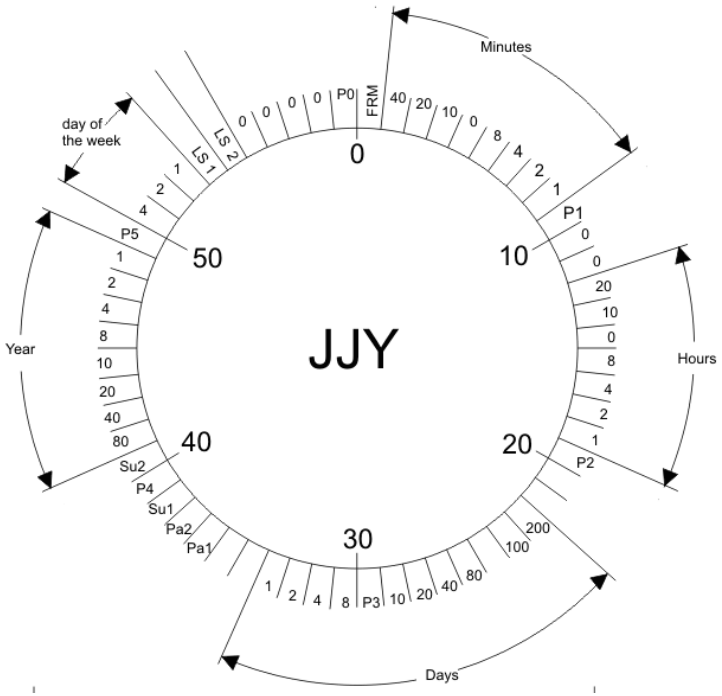
JJY40/60 Time Code



- http://jjy.nict.go.jp/jjy/index-e.html
- http://en.wikipedia.org/wiki/JJY
- Binary 0 = 200ms pulse, binary 1 = 500ms pulse, marker = 800ms pulse, 10% AM modulation



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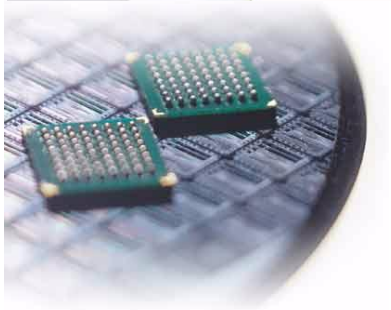
MAS6180

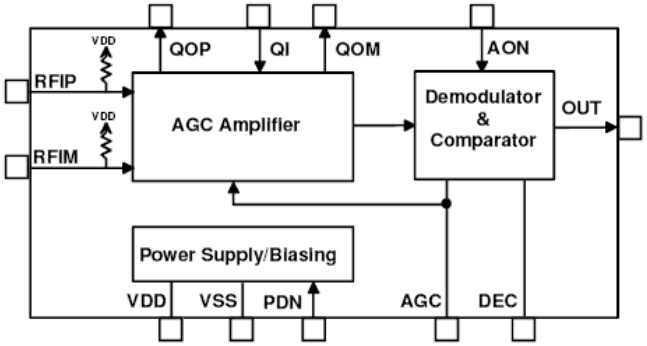


Single band AM receiver

- High Sensitivity, typ 0.4 μVrms
- Low Voltage Operation, down to 1.1 V
- Very Low Current Consumption, typ 40..66 μA
- Only Few External Components Necessary
- High Selectivity by Quartz Crystal Filter
- Differential Input for Improved Noise Immunity
- TSSOP-16 Package or Die (1020 µm x 1260 µm)
- Operating temperature -40 - +85°C

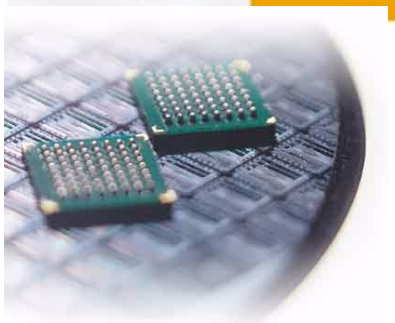
Suitable for

- WWVB (USA)
- JJY (Japan)
- DCF77 (Germany)
- MSF (UK)
- BPC (China)

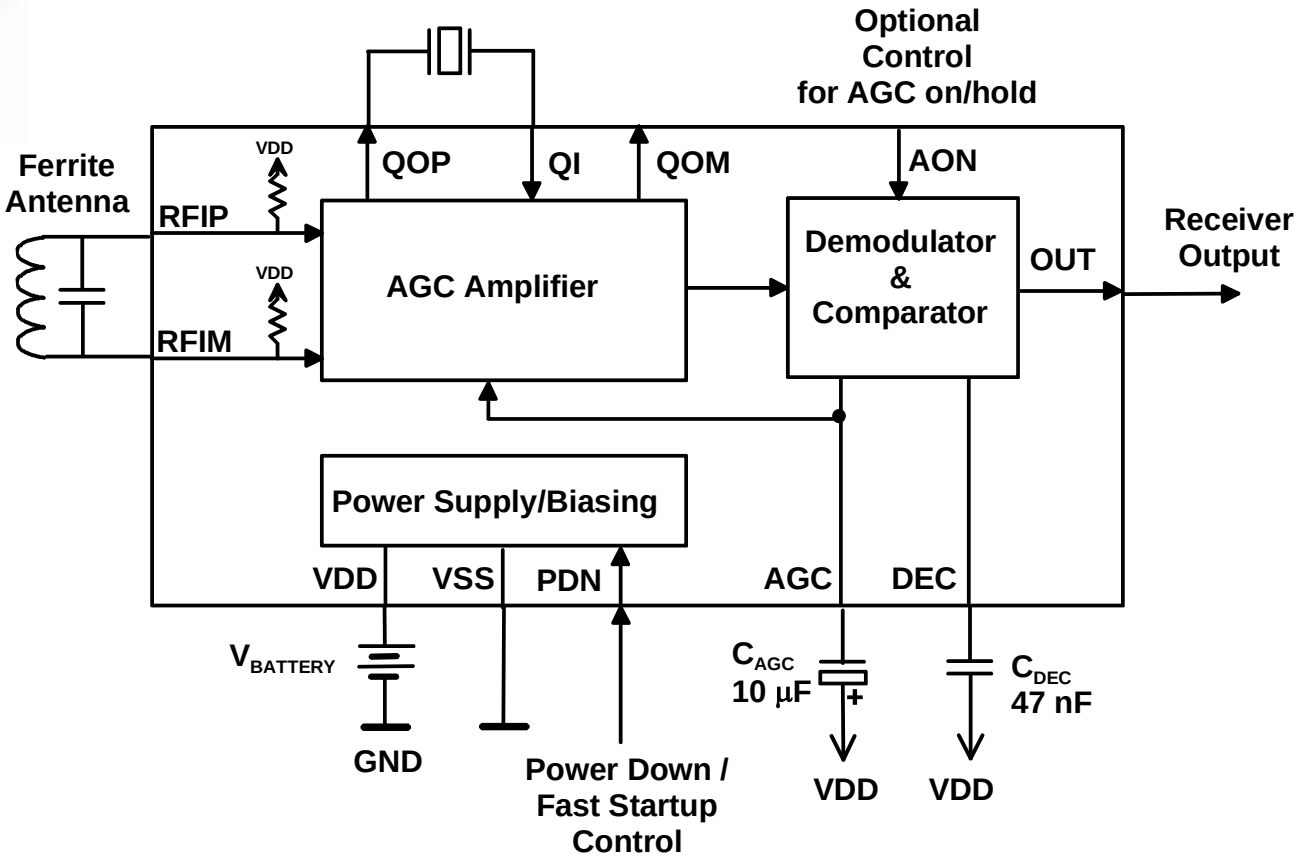


Tel：15815501712 QQ：273429043

Single Band Receiver IC

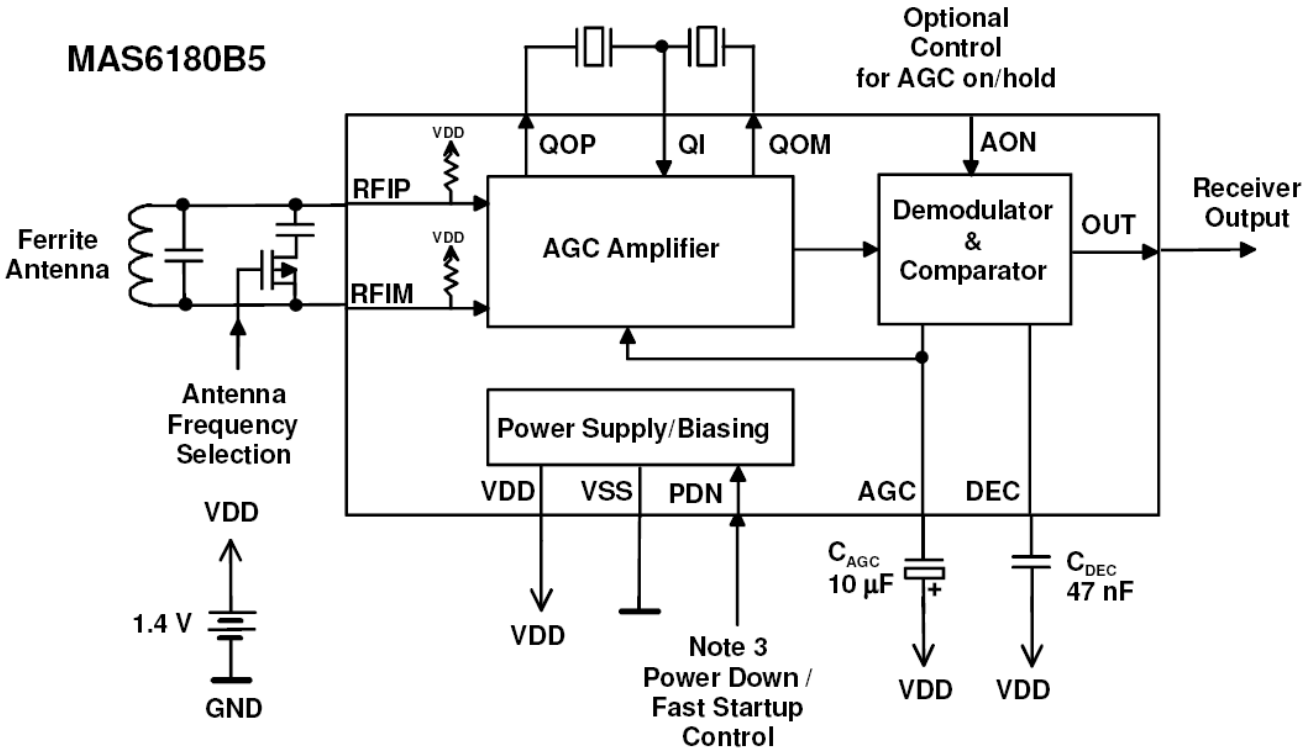


MAS6180B Application Circuit

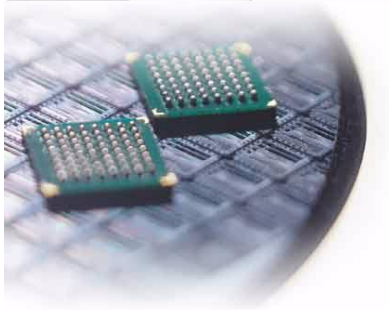


MAS6180B5 Application Circuit

Single Band Time Signal Receiver IC in Dual Band Configuration



MAS6181

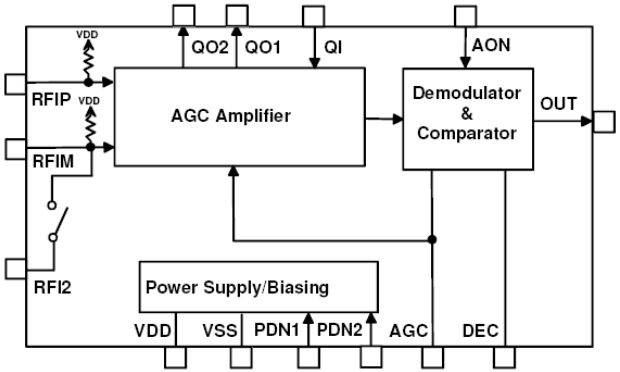


Dual band AM receiver

- High Sensitivity, typ 0.4 μVrms
- Wide supply voltage range, 1.1 – 3.6V
- Very Low Current Consumption, typ 40..66 μA
- Only Few External Components
- High Selectivity by Quartz Crystal Filter
- Differential Input for Improved Noise Immunity
- TSSOP-16 Package or Die (1020 µm x 1465 µm)
- Operating temperature -40 - +85°C

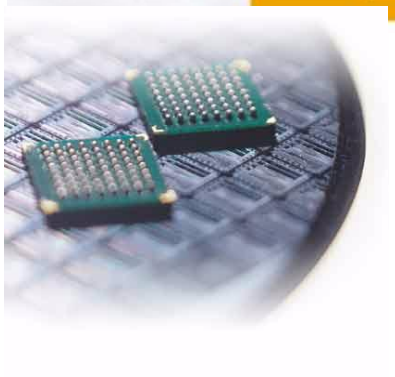
Suitable for

- WWVB (USA)
- JJY (Japan)
- DCF77 (Germany)
- MSF (UK)
- BPC (China)

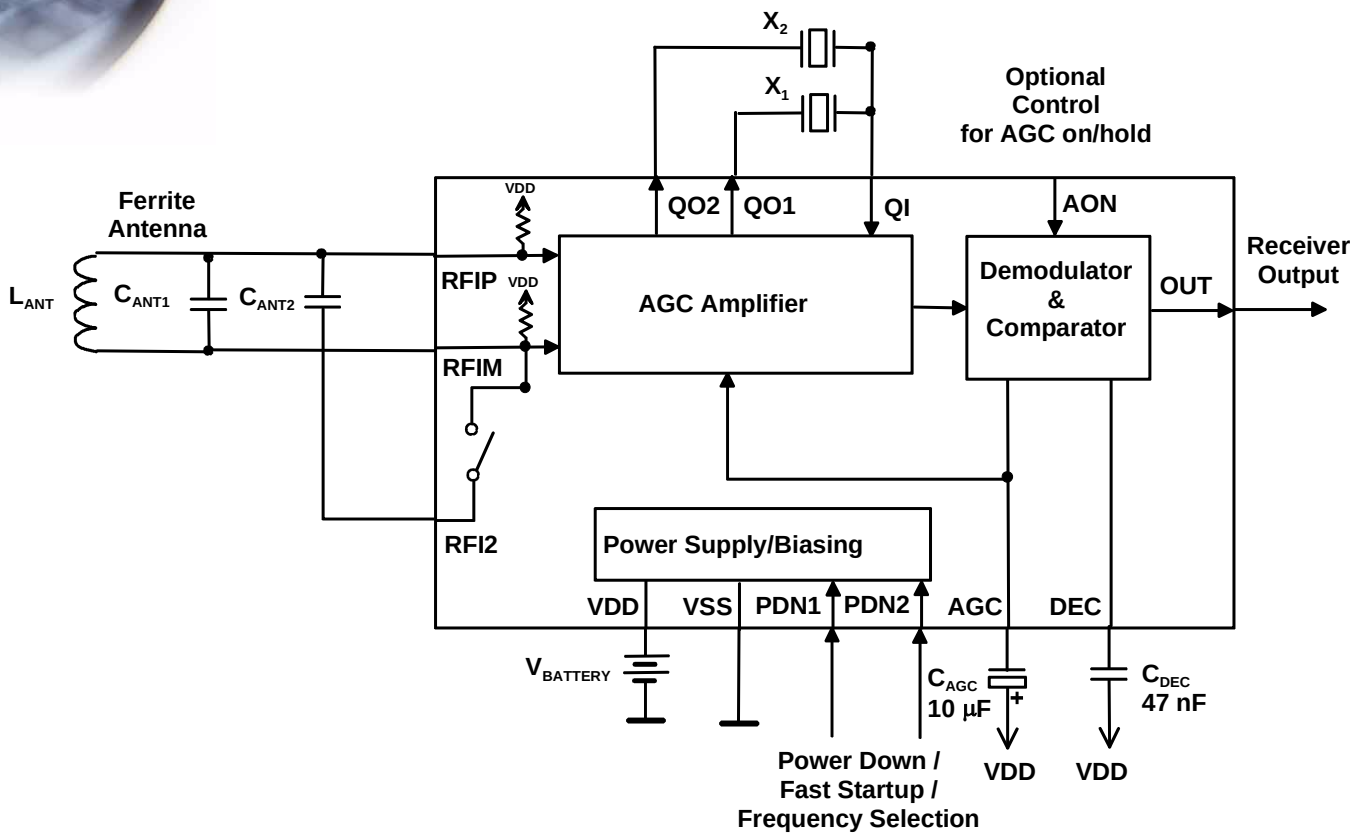


Tel：15815501712 QQ：273429043

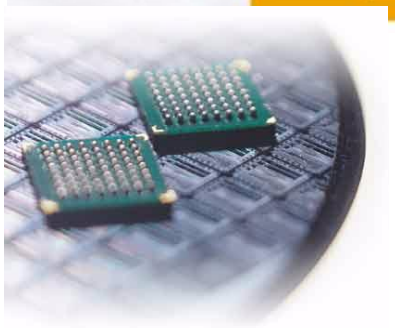
Dual Band Receiver IC



MAS6181B Application Circuit



Triple Band Circuit



MAS6181B in 3-Band Application Circuit