

Walsin RF Product Lines



Bluetooth 2.4GHz

Antenna 8010/7635/5220/3216
Balanced Filter 2012/1608
Band Passed Filter 2012/1005
Balun 2012/1608/1005
MLCI 1608/1005/0603

WiFi 2.4/5GHz

Antenna 1903/9937/6010/ Dipole Antenna
Band Passed Filter 2520/2012/1608/1005
Low Passed Filter 2012/1608/1005
Balun 2012/1608/1005
Diplexer 2012/1608
Triplexer 2012
Coupler 0605
MLCI 1608/1005/0603

EMI

Common Mode Filter 3216/2012/1210/0800
Common Mode Filter Array 2012
LCM EMI Filter Array 2012

LTE 2.5GHz/DCS

Dipole Antenna
LFP1608
BLN1608
BPF2012
CPL1608/0605

GSM/DCS 900MHz/1800MHz

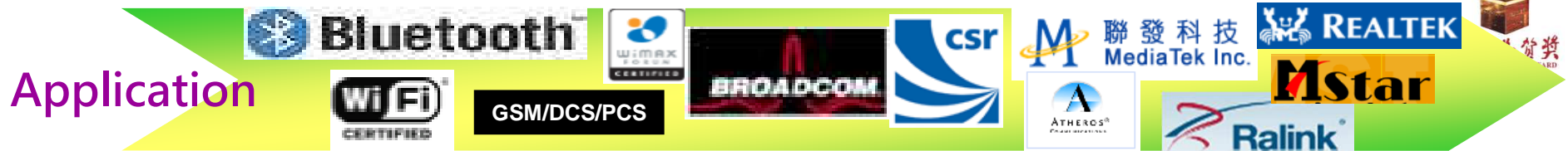
LPF1608/1005

GPS/LPD

1.5GHz/433MHz










Antenna 1003/5830/3216
Patch Antenna
Antenna 1204
Band Passed Filter 2012/1411

RF Filter Product Lineup



 Available product & chip size

 Under development









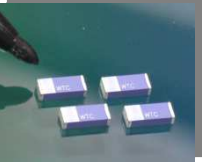



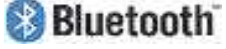














| Filter \ Size | 0605 (0.65×0.5) | 1005 (1.0×0.5) | 1608 (1.6×0.8) | 2012 (2.0×1.2) | 2520 (2.5×2.0) |
|---------------|---|--|---|-------------------|-------------------|
| BPF | |  | Band Pass Filter | | |
| LPF |  2014-Q1 |  | Low Pass Filter | | |
| BLN | |  | Balun Filter | | |
| BPB | | | Balanced Band Pass Filter | | |
| DIP | |  2014-Q2 |  | Diplexer | |
| CPL |  2014-Q2 |  | | Coupler | |
| IPD | | |  | | |

Summary of Multilayer Common Mode Filter

| Application | Part Number | Impedance | | DC Resistance | Rated Current | Dimension(mm³) | Differential Impedance |
|---|-----------------|---|-----------------------------------|---------------|---------------|--------------------|------------------------|
| | | Attenuation | Common Mode@ 100MHz | | | | |
| USB2.0/ IEEE1394 | RGCMF1210350X0T | | 35 ohm ± 25% | 0.70 ohm | 300mA | 1.25 X 1.00 X 0.80 | 90 ohm |
| | RGCMF1210650X1T | | 65 ohm ± 20% | 0.85 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210101X2T | | 100 ohm ± 20% | 1.5 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210900X3T | | 90 ohm ± 20% | 1.5 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210121X4T | | 120 ohm ± 20% | 1.5 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1220121X5T | | 120 ohm ± 20% | 1.5 ohm | 400mA | 1.25 X 2.00 X 1.00 | |
| | RFCMF1220100M4T | Scc21: 9.0dB@ 130MHz ~ 1GHz Sdd21: Max 1.0dB@ 240MHz | 120 ohm ± 20% (reference only) | 2.5 ohm | 200mA | 1.20 X 2.00 X 1.00 | |
| | RFCMF1220100M3T | Scc21: 9.0dB@ 240MHz ~ 1GHz Sdd21: Max 0.6dB@ 240MHz | 80 ohm ± 20% (reference only) | 1.5 ohm | 300mA | 1.20 X 2.00 X 1.00 | |
| | RFCMF1632140M2T | Scc21: 9.0dB@ 140MHz ~ 1GHz Sdd21: 0.8dB@ 240MHz | 100 ohm ± 20% (reference only) | 2.5 ohm | 300mA | 1.60 X 3.20 X 1.40 | |
| | RFCMF1632100M3T | Scc21: 9.0dB@ 240MHz ~ 1GHz Sdd21: 0.6dB@ 240MHz | 60 ohm ± 20% (reference only) | 1.5 ohm | 300mA | 1.60 X 3.20 X 1.00 | |
| | RGCMF3216090M1T | Scc21: 8.0dB@ 240MHz ~ 1GHz Sdd21: 0.8dB@ 240MHz | 65 ohm ± 20% (reference only) | 1.5 ohm | 200mA | 3.20 X 1.60 X 0.95 | |
| HDMI/ LVDS DVI/ MIPI /PCI-E Series-ATA Display Port | RGCMF1210350H0T | | 35 ohm ± 25% | 0.8 ohm | 300mA | 1.25 X 1.00 X 0.80 | 100 ohm |
| | RGCMF1210650H1T | | 65 ohm ± 20% | 0.8 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210101H2T | | 100 ohm ± 20% | 1.0 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210900H3T | | 90 ohm ± 20% | 1.0 ohm | 300mA | 1.25 X 1.00 X 0.80 | |
| | RGCMF1210121H4T | | 120 ohm ± 20% | 1.2 ohm | 300mA | 1.25 X 1.05 X 0.80 | |
| | RGCMF1210900H7T | | 90 ohm ± 20% | 1.0 ohm | 300mA | 1.25 X 1.05 X 0.80 | |
| | RGCMF2012900H1T | | 90 ohm ± 20% | 1.0 ohm | 200mA | 2.00 X 1.25 X 1.00 | |
| USB 3.0 | RGCMF1210180U0T | | 18 ohm ± 25% | 0.5 ohm | 300mA | 1.25 X 1.00 X 0.80 | 90 ohm |
| | RGCMF1210350U0T | | 35 ohm ± 20% | 0.8 ohm | 300mA | 1.25 X 1.00 X 0.80 | |

Ceramic Chip Antennas



| Applications | | | | Antenna Products | | | |
|---|--|---|--|---|--|--|---|
|  Mobile phone |  Headset |  PDA/PND |  2.4GHz ANT3216 |  2.4GHz ANT7635 |  2.4GHz ANT5220 |  2.4GHz ANT8010 | |
|  Game m/c |  Dongle |  Consumer |  2.4GHz ECA3216 |  GPS ANT1003 |  Bluetooth |  WiFi CERTIFIED Certified Interoperability for: 2.4 GHz Band <input type="checkbox"/> 11 Mbps 5 GHz Band <input type="checkbox"/> 54 Mbps www.wi-fi.org |  ZigBee |
|  DPF |  EBook |  AP Router |  Industrial |  BT/ WiFi/GPS Antenna |  SMD FREE Antenna 1903/9937/1204 |  2.4/5GHz ANT6050 |  2.4/5GHz ANT6050 |
|  |  |  LPD |  Antenna 433MHZ | | | | |