



ASARTECH

CATALOGUE

PRODUCTS & SERVICES

asartech
R&D DESIGN ENGINEERING

PRODUCTS

PASSIVE MODULES

- 1 GHz BANDPASS FILTER
- IF FILTER BANK
- 8.9 GHz BANDPASS FILTER
- C-BAND BANDPASS FILTER
- 1200 MHz HIGHPASS FILTER
- 400 MHz LOWPASS FILTER
- 1200 MHz LOWPASS FILTER
- HIGH POWER 2850 MHz LOWPASS FILTER

SIGNAL GENERATORS

- WIDEBAND SIGNAL GENERATOR
- LOW NOISE, STABLE FREQUENCY REFERENCE
- C-BAND LOCAL OSCILLATOR
- 2-CHANNEL DUAL BAND LOCAL OSCILLATOR

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CUSTOMIZED DESIGNS

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SERVICES

- SYSTEMS ENGINEERING
- NAVAL EXPERTISE AND CONSULTANCY
- INTEGRATED LOGISTIC SUPPORT (ILS)
- SUBSTITUTIONAL DESIGN

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PRODUCTS

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PASSIVE MODULES

Asartech designs custom RF and microwave passive products up to 40 GHz:

- Lumped Element Filters
- Machined Cavity Filters
- Coaxial Ceramic Resonator Filters
- Microstrip and Suspended Stripline Filters
- Switched/Channelized Filters
- Diplexer and Multiplexers
- Switched Multiplexers
- Directional Couplers
- Hybrid Couplers
- Attenuators
- Terminations

Available in Surface Mount and Connectorized versions

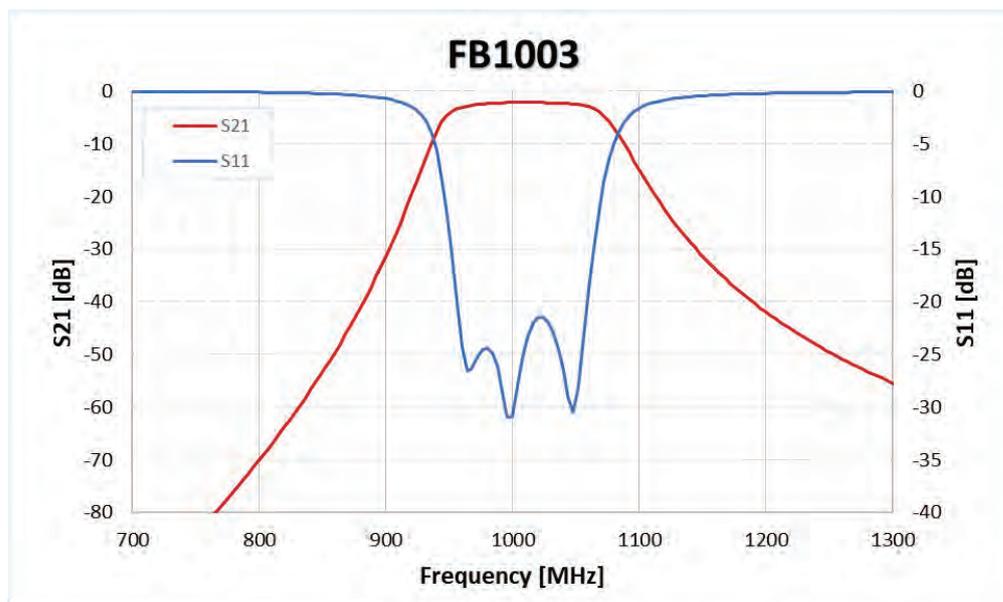
FB1003

1 GHz BANDPASS FILTER



DESCRIPTION

FB1003 is a general purpose 1 GHz bandpass filter. It's a lumped element filter housed in a standard Asartech FG1002 housing, ie, 39.25 x 16.7 x 11mm aluminium box. The input and output connectors are standard SMA. The unit is intended for narrowband applications up to 100 MHz, as well as harmonic filtering for fixed 1 GHz reference frequency sources.



SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|-----------------|----------------|-----------------|-------|--------|-------|
| Passband | Insertion Loss | 950-1050 MHz | | 2.5 dB | 4 dB |
| | Return Loss | 950-1050 MHz | | 20 dB | 18 dB |
| | Power Handling | 950-1050 MHz | | | 1W |
| Stopband | Attenuation | DC - 800 MHz | 60 dB | 70 dB | |
| | Attenuation | 1200-3000 MHz | 35 dB | 40 dB | |

Full specifications available upon request.

FB1004

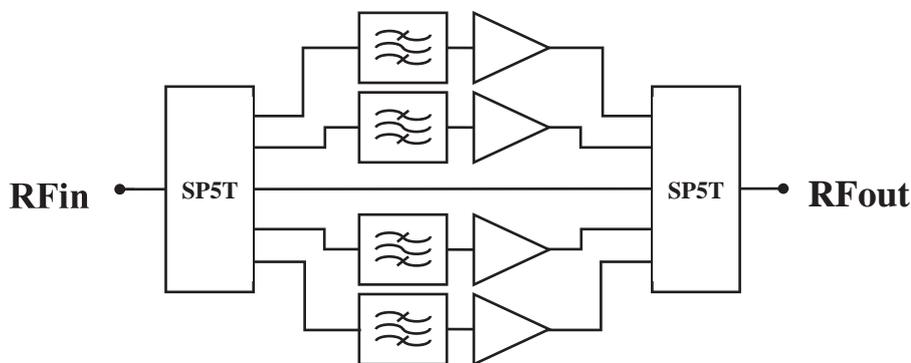
IF FILTER BANK



DESCRIPTION

FB1004 is an IF filter bank suitable in front of high speed ADCs in receiver chains. The filter channels are centered around 240 MHz and selected by TTL inputs. The unit incorporates highly selective SAW filters with bandwidths of 0.3 MHz, 5 MHz, 10 MHz and 20 MHz. The filter bank also includes a selectable bypass RF through path.

On SAW filter channels, adequate gain blocks were included to compensate the SAW filter losses. The overall gain is $0\text{dB} \pm 1\text{dB}$ for those channels.



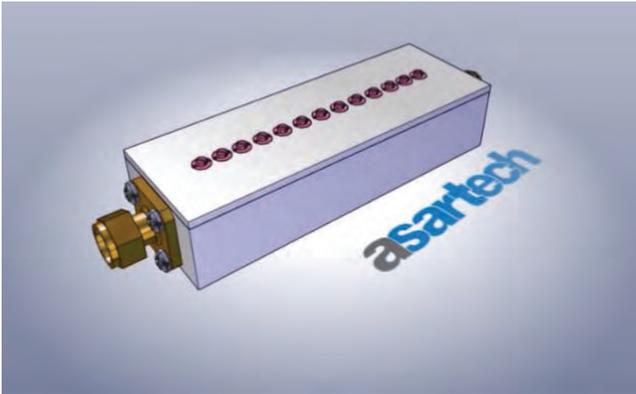
SPECIFICATIONS

| Parameter | Limit | Notes |
|-----------------------------|---|-------|
| Passband Center (Fo) | 240 MHz | |
| Passband Width (BW) | 5 ch: < 1 MHz, 5/10/20 MHz and through paths | |
| Signal Gain | 0 dB \pm 1 dB typ for filter paths, - 2 dB typ for through path | |
| Return Loss | 20 dB max | |
| Stopband Attenuation | 30 dB min @ Fo - BW, Fo+BW | |
| Power Handling | 15 dBm typ | |

Full specifications available upon request.

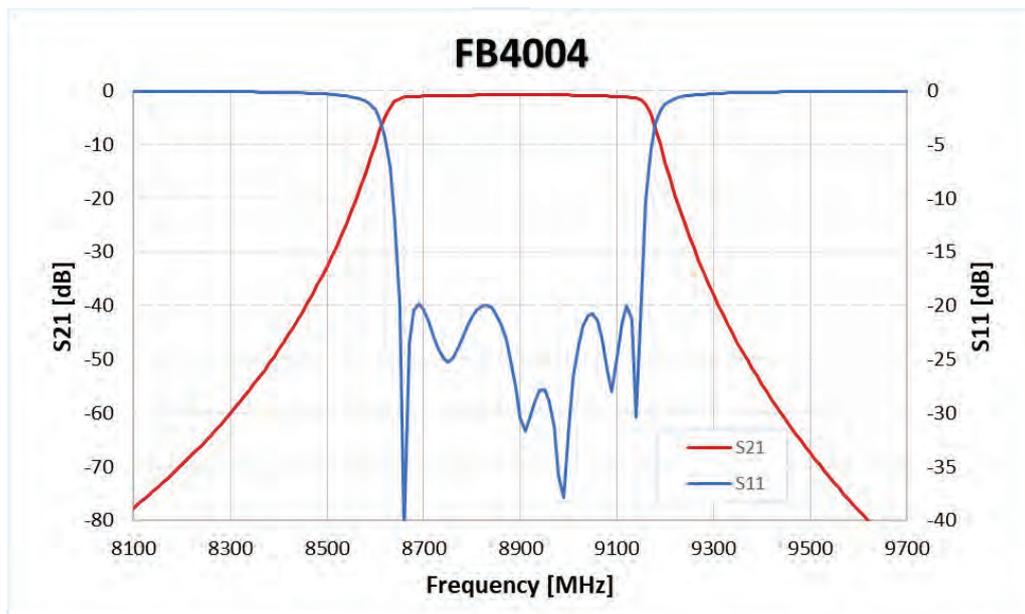
FB4004

8.9 GHz BANDPASS FILTER



DESCRIPTION

FB4004 is a highly selective, low-loss 8900 MHz bandpass filter. It's a machined cavity filter housed in 98.6 x 17.2 mm aluminum box. The input and output connectors are standard SMA. The unit can be used for RX and TX front ends of X-band transceivers and radars.



SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|----------|----------------|-----------------|-------|--------|--------|
| Passband | Insertion Loss | 8700-9100 MHz | | 1.2 dB | 1.5 dB |
| | Return Loss | 8700-9100 MHz | | 20 dB | 17 dB |
| | Power Handling | 8700-9100 MHz | | | 10 W |
| Stopband | Attenuation | DC-8400 MHz | 40 dB | 48 dB | |
| | Attenuation | 9400-18000 MHz | 50 dB | 55 dB | |

Full specifications available upon request.

FB4006

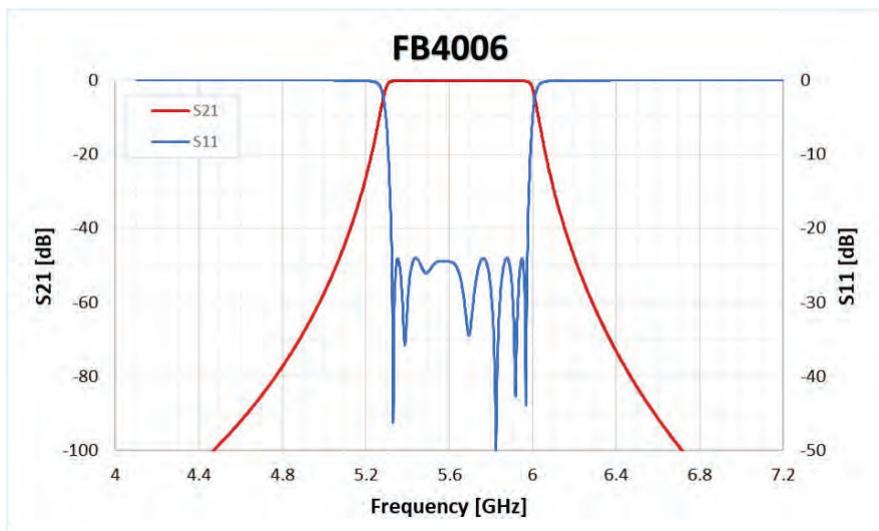
C-BAND BANDPASS FILTER



DESCRIPTION

FB4006 is cavity bandpass filter in C-band (frequencies available upon request and customizable within frequency range).

The passband width is 600 MHz max.



SPECIFICATIONS

| Parameter | Limit | Notes |
|----------------------|--------------------------|---|
| Passband Freqs | 5-6 GHz | Actual freq band available upon request |
| Passband Width | 600 MHz | |
| Insertion Loss | 0.5 dB max within PB | |
| Return Loss | 20 dB max | |
| Stopband Attenuation | 55 dB @ F1,2 +/- 350 MHz | |
| Power Handling | 100 W | |
| No Spurious | Up to 15 GHz | |

Full specifications available upon request.

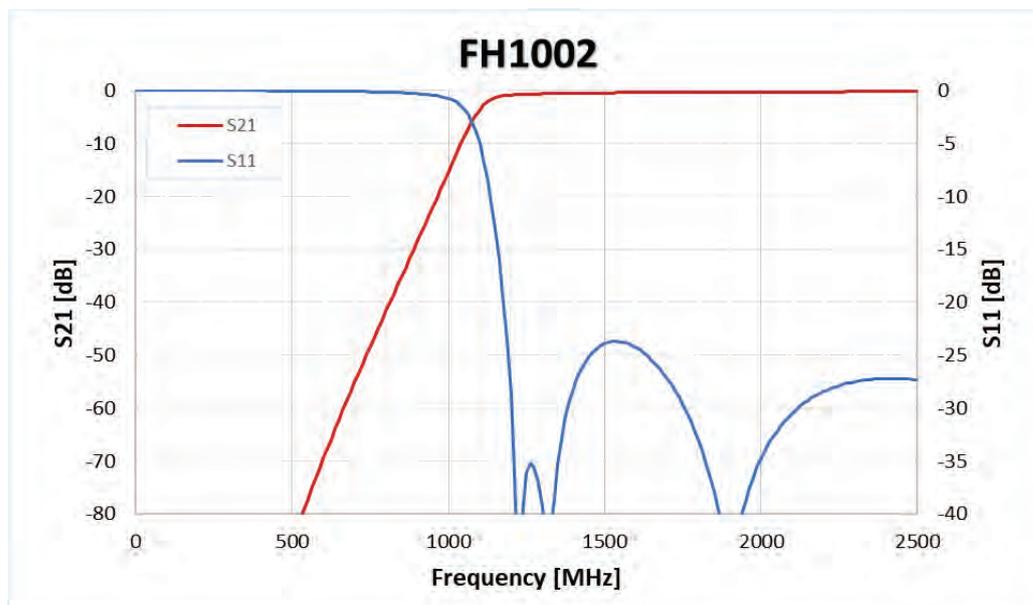
FH1002

1200 MHz HIGHPASS FILTER



DESCRIPTION

FH1002 is a general purpose 1200 MHz highpass filter. It's a lumped element filter housed in a standard Asartech FG1002 housing, ie, 39.25 x 16.7 x 11mm aluminium box. The input and output connectors are standard SMA. The unit can be used for filtering out GSM signals as well as a good fit for low order Nyquist zones of anti-alias filtering of ultra high speed ADCs.



SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|-----------------|----------------|-----------------|-------|--------|--------|
| Passband | Insertion Loss | 1200-3000 MHz | | 0.8 dB | 1.2 dB |
| | Return Loss | 1200-3000 MHz | | 20 dB | 16 dB |
| | Power Handling | 1200-3000 MHz | | | 5 W |
| Stopband | Attenuation | DC - 800 MHz | 35 dB | 40 dB | |

Full specifications available upon request.

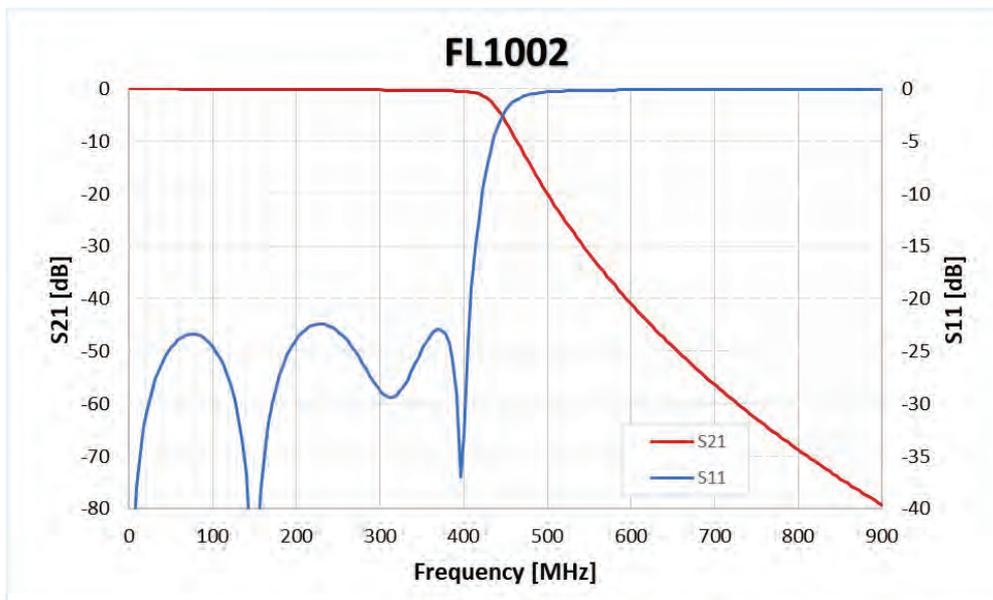
FL1002

400 MHz LOWPASS FILTER



DESCRIPTION

FL1002 is a general purpose 400 MHz lowpass filter. It's a lumped element filter housed in a standard Asartech FG1001 housing, ie, 54.25 x 16.8 x 11mm aluminium box. The input and output connectors are standard SMA. The unit can be used for filtering out harmonics of PA driver amplifiers, as well as a good fit for anti-alias filtering of high-speed ADCs.



SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|-----------------|----------------|-----------------|-------|--------|--------|
| Passband | Insertion Loss | DC – 400 MHz | | 0.5 dB | 1.0 dB |
| | Return Loss | DC – 400 MHz | | 20 dB | 18 dB |
| | Power Handling | DC – 400 MHz | | | 5 W |
| Stopband | Attenuation | 600 – 3000 MHz | 35 dB | 40 dB | |

Full specifications available upon request.

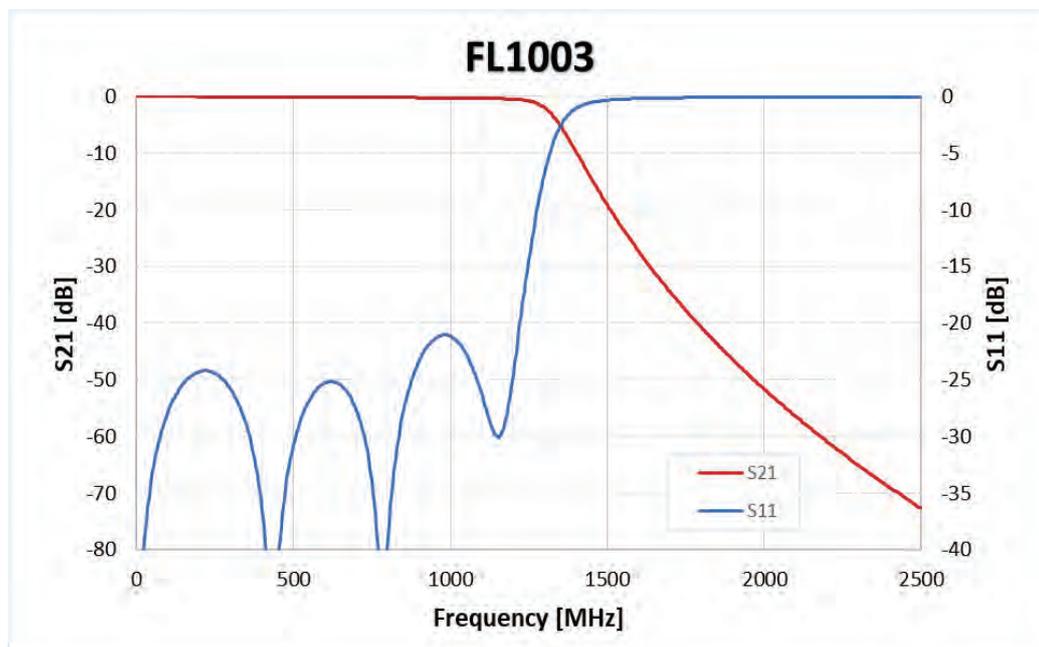
FL1003

1200 MHz LOWPASS FILTER



DESCRIPTION

FL1003 is a general purpose 1200MHz lowpass filter. It's a lumped element filter housed in a standard Asartech FG1002 housing, ie, 39.25 x 16.7 x 11mm aluminium box. The input and output connectors are standard SMA. The unit can be used for various applications including anti-alias filtering for ultra high-speed ADCs.



SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|----------|----------------|-----------------|-------|--------|--------|
| Passband | Insertion Loss | DC – 1200 MHz | | 0.5 dB | 1.0 dB |
| | Return Loss | DC – 1200 MHz | | 20 dB | 16 dB |
| | Power Handling | DC – 1200 MHz | | | 5 W |
| Stopband | Attenuation | 1800 – 3000 MHz | 40 dB | 45 dB | |

Full specifications available upon request.

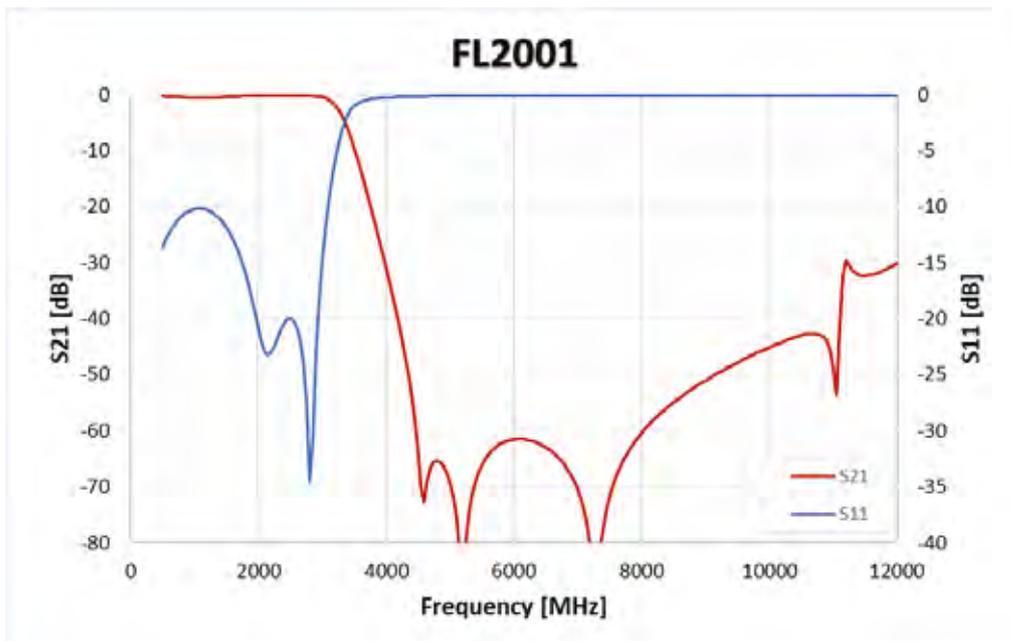
FL2001

HIGH POWER 2850 MHz LOWPASS FILTER



DESCRIPTION

FL2001 is a 2850 MHz harmonic lowpass filter. It's a distributed element filter housed in a 45.25 x 16.1 x 11mm aluminium box (inc connectors). The input and output connectors are standard SMA. The unit is intended for filtering out harmonics and spuri of 2.4 GHz PA drivers.



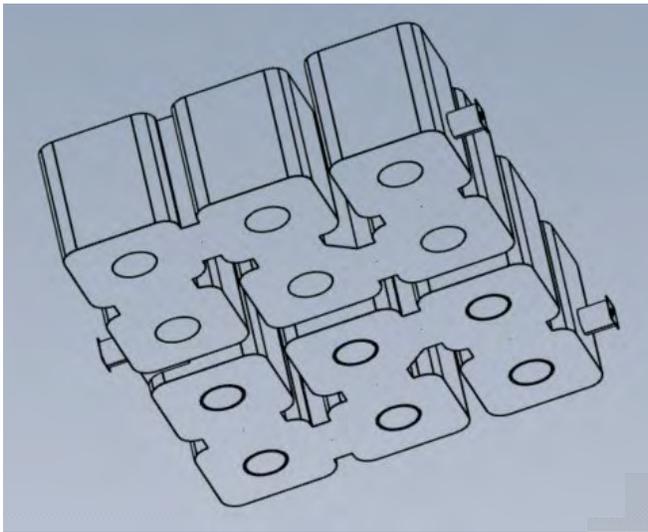
SPECIFICATIONS

| | Parameter | Frequency Range | Min | Typ | Max |
|----------|----------------|-----------------|-------|--------|-------------|
| Passband | Insertion Loss | DC to 2850 MHz | | 0.5 dB | 1.0 dB |
| | Return Loss | DC to 2850 MHz | | 20 dB | 18 dB |
| | Power Handling | DC to 2850 MHz | | 20 W | 150 W(peak) |
| Stopband | Attenuation | 4400-10000 MHz | 45 dB | 40 dB | |

Full specifications available upon request.

FD1003

LTE BAND 65 DIPLEXER



DESCRIPTION

FD1003 is a Bandpass Diplexer that is designed to address challenging needs of LTE Band 65 applications at 2GHz. The unit boasts two 90MHz wide low-loss cavity filters which are diplexed with a band gap of 100MHz.

FD1003 is equipped with a Type N connector at common port and two SMA(F) connectors on the diplexed RX and TX channels. The unit can handle powers of up to 200W with 0.5dB insertion loss on either RX or TX channel.

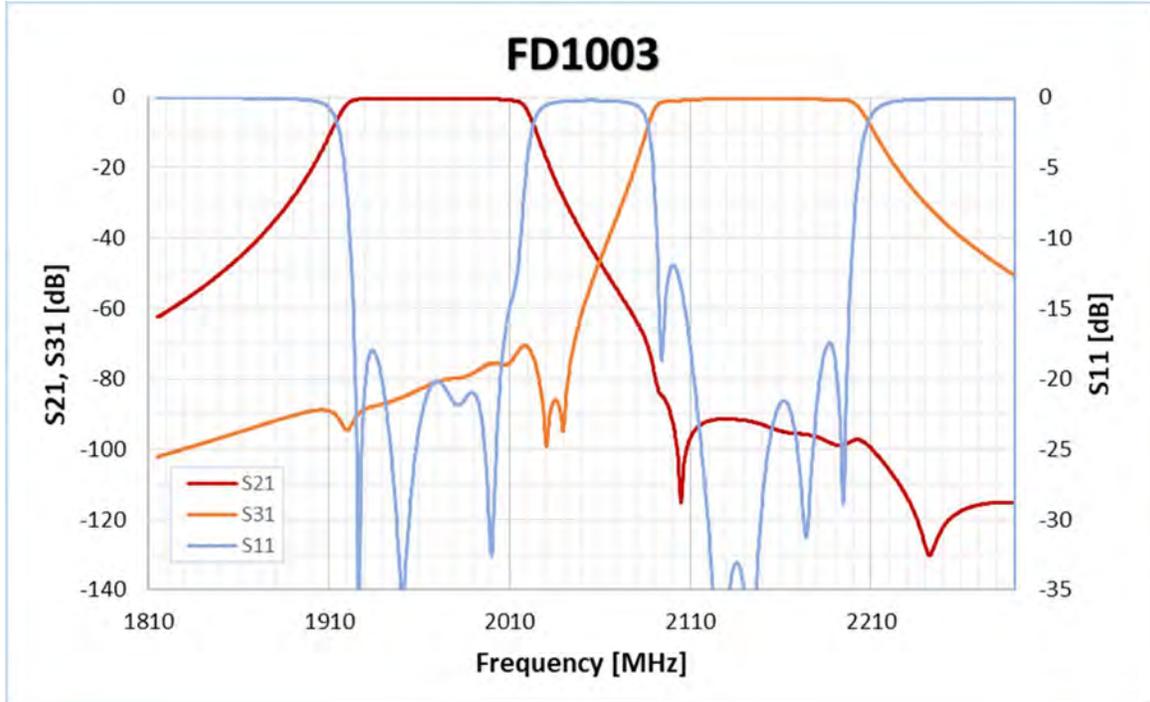
Electrical Specifications

| | Parameter | RX | TX |
|-----------------------|--------------------|---|---|
| Passband | Passband Frequency | 1920-2010 MHz | 2110-2200 MHz |
| | Passband Width | 90 MHz | 90 MHz |
| | Insertion Loss | 0.4dB in band typ 0.5dB max across PB(*) | 0.4dB in band typ 0.5dB max across PB(*) |
| | Return Loss | 18dB typ 20dB target | 18dB typ 20dB target |
| Stopband | Attenuation | 70dB minimum in 1920-2010MHz | 70dB minimum in 1920-2010MHz |
| Power Handling | | 200W minimum | |

(*) simulations indicate 0.5dB is achievable, but no optimization was performed yet.

Typical Response

Simulated 3D response is given below. Datasheet will be updated with an optimized simulation soon.



Mechanical Specifications

| Parameter | Value |
|------------|--------------------|
| Dimensions | 92 x 69 x 24mm max |
| Material | Aluminum |
| Finish | Silver Matte |

Connector Interface

| Connector | Description | Type |
|-----------|-------------|----------------------|
| J1 | ANT | Type N Jack (Female) |
| J2 | RX | SMA Jack (Female) |
| J3 | TX | SMA Jack (Female) |

Designed and Manufactured in TURKEY

IMPORTANT

- Specifications subject to change without further notice.
- Data given in this document provides its typical performance. Actual device performance is guaranteed by specifications called out by “customer-specific” part number and the associated acceptance test procedure.

asartech
R&D DESIGN ENGINEERING

SIGNAL GENERATORS

Asartech designs custom RF and microwave high fidelity signal generators up to and including Ka-band.

- Ultra Stable, Ultra Low Noise Frequency References (typ 10 MHz, 100 MHz and 1 GHz)
- Wideband Frequency Synthesizers involving phase locked loops
- Ultra Low Noise Local Oscillators for Radar Applications
- Frequency Hopping Synthesizers

Available in Module or Rack Mount

SG1001

WIDEBAND SIGNAL GENERATOR



DESCRIPTION

SG1001 is a USB-controlled wideband signal generator for portable applications. It incorporates an internal 10 MHz TCXO. The frequency accuracy is ± 1 ppm.

The output power is controlled by a digital attenuator in 0.5 dB steps with 30 dB attenuation range.

Device consumes 1 W at a single 7.5 Vdc input.

FEATURES

- Wideband Frequency Generation
- Frequency and Amplitude Control
- Low Phase Noise
- Low power consumption

SPECS AT A GLANCE

- 10 MHz to 20 GHz output
- -20 dBm to +10 dBm output power
- Low Phase Noise
- 20 us switching speed

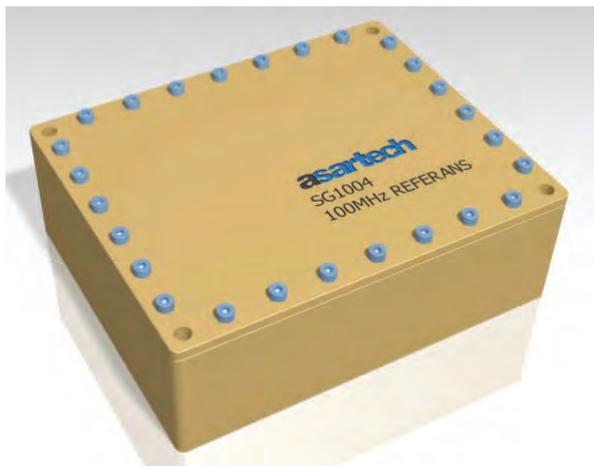
SPECIFICATIONS

| Parameter | Limit | Notes |
|------------------------------------|---|-------|
| Output Frequency Range | 10 MHz to 20 GHz | |
| Frequency Steps | 1 kHz | |
| Output Level | -20 to +10 dBm | |
| Level Control | 0.5 dB steps | |
| Output Phase Noise at 9GHz | 105 dBc/Hz @ 10 kHz offset 120 dBc/Hz @ 1 MHz offset | |
| Output Phase Noise at 20GHz | 96 dBc/Hz @ 10 kHz offset 112 dBc/Hz @ 1 MHz offset | |
| DC Power Consumption | 1 W typ | |

Full specifications available upon request.

SG1004

LOW NOISE, STABLE FREQUENCY REFERENCE



DESCRIPTION

SG1004 is an ultra-stable, ultra-low noise frequency reference. It consists of a low noise 100 MHz Voltage Controlled Crystal Oscillator (VCXO), phase locked to a stable Oven Controlled Crystal Oscillator (OCXO).

Device consumes 5 W during warm-up of 5 minutes and settles at 2.5 W at steady state at 20°C ambient temperature.

FEATURES

- 2x Sinewave outputs
- Ultra Temperature Stable
- Very Low Ageing
- Ultra Low Phase Noise

SPECS AT A GLANCE

- 100MHz fixed output
- 2ppb Stability within 0 to 50°C
- 30 ppb/year Ageing
- Ultra Low Phase Noise

SPECIFICATIONS

| Parameter | Limit |
|----------------------|--|
| REF outputs Freq | 100 MHz |
| REF outputs Level | 5 dBm \pm 2 dB |
| Temp Stability | \pm 2 ppb within 0 to 50°C |
| Ageing / day | 0.5 ppb typ |
| Ageing / year | 30 ppb typ |
| 100MHz Phase Noise | -145 dBc/Hz @ 1 kHz -175 dBc/Hz @ 1 MHz |
| DC Power Consumption | 5 W max during warmup 2.5 W typ at steady state |

Full specifications available upon request.



LO1001

C-BAND LOCAL OSCILLATOR



DESCRIPTION

LO1001 is a low phase noise, voltage-controlled oscillator for use with C-band transceivers.

LO1001 features a very low phase noise ceramic resonator oscillator with 160 dBc/Hz phase noise floor.

Device consumes 5 W typically.

FEATURES

- Excellent Phase Noise
- High Output Power – no extra LO drive needed

SPECS AT A GLANCE

- 5-6 GHz Output Frequency Range
- +16 dBm output power
- P/N -100 dBc/Hz @ 10 kHz offset
- P/N -142 dBc/Hz @ 1 MHz offset
- 60 MHz/V Tuning Sensitivity

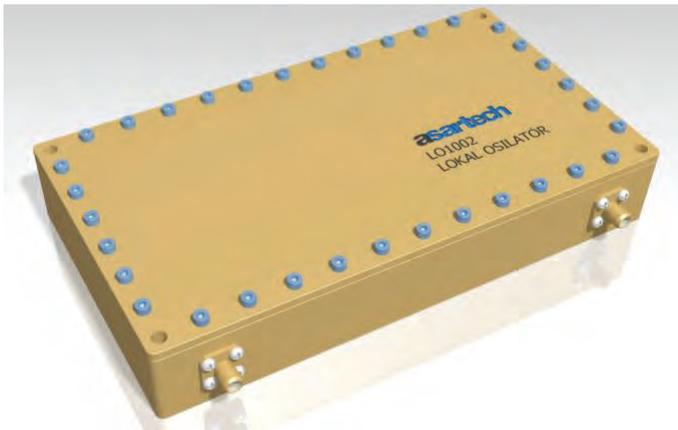
SPECIFICATIONS

| Parameter | Limit | Notes |
|-----------------------------|---|-----------------------------|
| Frequency Range | C-band | Data available upon request |
| Output Power | 16 dBm typ | |
| Tuning Voltage | 5 V to 25 V | |
| Harmonics/Spurious | -25 dBc /- 60 dBc | |
| Phase Noise | -100 dBc/Hz @ 10 kHz -142 dBc/Hz @ 1 MHz | |
| DC Power Consumption | 5 W max | |

Full specifications available upon request.

LO1002

2-CHANNEL DUAL BAND LOCAL OSCILLATOR



DESCRIPTION

LO1002 is a 2-channel dual band local oscillator for use with frequency converters. LO1 is a fast frequency variable oscillator whereas LO2 is a fixed oscillator. Frequency ranges can be customized to specifications within specified ranges.

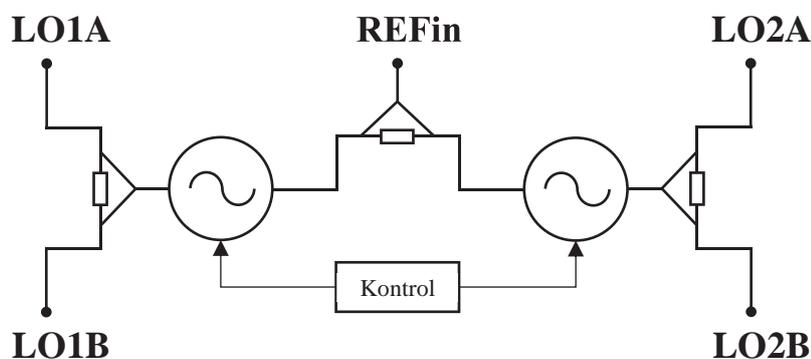
LO1002 features fast PLLs with LO1 settling in 150 ns which allow fast frequency hopping. Device incorporates very low noise voltage controlled oscillators (VCOs), with LO1 reaching -135 dBc/Hz and LO2 reaching -145 dBc/Hz at 1 MHz offset.

FEATURES

- Ultra Low Phase Noise Oscillators
- 150ns LO1 frequency switching time
- Fast Phase Locked Loops (PLLs) locked to a single frequency reference
- Both LOs amplitude and phase matched for A and B outputs

SPECS AT A GLANCE

- 6.5 – 8.0 GHz LO1 output
- 1.6 – 2.0 GHz LO2 output
- -60 dBc spuri and harmonics



SPECIFICATIONS

| Parameter | Limit | Notes |
|------------------------------------|---|---|
| LO1 Frequency Range | 6.5 – 8.0 GHz | Customer specified band (max 600 MHz BW) within range |
| LO2 Frequency Range | 1.6 – 2.0 GHz | Customer specified fixed frequency within range |
| LO1 Frequency Steps | 10 MHz minimum | |
| LO1 Frequency Settling Time | 150 ns typ | |
| LO1 Frequency Selection | 5- bit TTL | |
| LO1 Phase Noise | 100 dBc/Hz @ 10 kHz 135 dBc/Hz @ 1 MHz | |
| LO2 Phase Noise | 110 dBc/Hz @ 10 kHz 145 dBc/Hz @ 1 MHz | |
| LO1 Output Level | 3 dBm ± 3 dB | |
| LO2 Output Level | 3 dBm ± 2 dB | |
| REF Input Frequency | 100 MHz | |
| REF Input Level | 0 dBm ± 2 dB | |
| DC Power Consumption | 5 W typ | |

Full specifications available upon request.

SIGNAL PROCESSING PRODUCTS

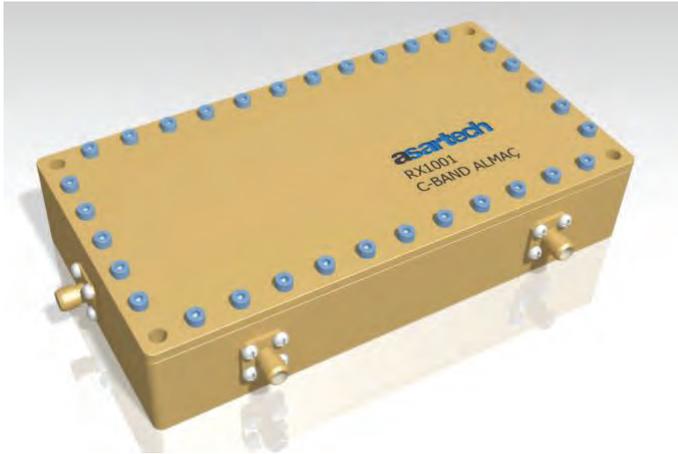
Asartech designs custom RF and microwave signal processing products up to 40 GHz:

- Wideband Frequency Converters
- Narrowband Receivers for Radar Applications
- Frequency Upconverters for Transmitters
- RF Switches integrated with Receiver Protection
- Block Downconverters

Available in Module or Rack Mount

RX1001

C-BAND RECEIVER



DESCRIPTION

RX1001 is a 2-stage frequency downconverter designed to work in C-band. RF input frequency band lies within 5-6 GHz and can be customized for the customer. IF output frequency is normally centered at 240 MHz and can be similarly customized. IF bandwidth is limited to 60MHz.

Equipped with filtered and low noise LDO regulators, and highly selective filters, harmonic and spuri output are suppressed below -60 dBc.

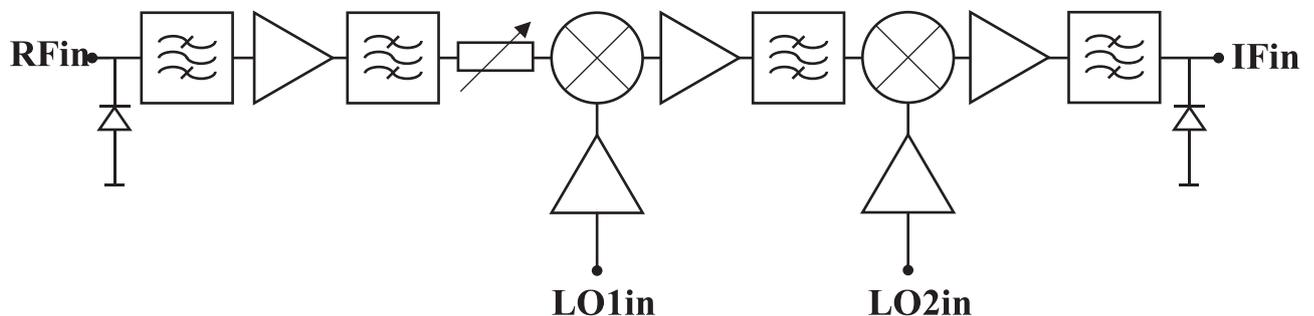
IF output is limited to +10 dBm for ADC applications. It can be removed at factory if desired.

FEATURES

- RF power limiting at input and output
- High Side LO1 and LO2 mixing
- Selective SAW Filtering

SPECS AT A GLANCE

- 5-6 GHz RF input
- 240 MHz IF output
- 70 dB SFDR typ (1MHz BW)
- 4 dB NF typ



SPECIFICATIONS

| Parameter | Limit | Notes |
|---------------------------------------|----------------------------|---|
| RF Input Band | 5-6 GHz | Actual freq band specified upon order |
| IF Output Band | 210-270 MHz | |
| RF-IF Gain | 40 dB typ | |
| RF Output P1dB | 9 dBm | Can be customized within 7 to 13 dBm |
| RF Output Power | -30 dBm typ +10 dBm max | 10% duty |
| Noise Figure | 4 dB typ | |
| SFDR | 70 dB typ | |
| LO Frequencies | -- | LO frequencies available upon order |
| LO Input Power | 0 dBm \pm 2 dB | LO1 and LO2 |
| IF Output Spurii | -60 dBc max | At IF output |
| Out of Band Signal Suppression | -80 dBm max | Measured IF output for 0 dBm input at 200 MHz away from RF input band corners |
| RF-IF Gain Adjust | 31 dB typ | |
| RF-IF Gain Adjustment Steps | 1 dB | |
| RF-IF Gain Control | 5-bit, 0/5 V | |
| Gain Adjustment Settling | 200 ns max | From 50% VCTRL to %90 RF |
| DC Power Consumption | 4 W max | |

Full specifications available upon request.

TX1001

C-BAND TRANSMITTER



DESCRIPTION

TX1001 is a 2-stage frequency upconverter designed to work in C-band. RF input frequency band lies within 5-6 GHz and can be customized for the customer. IF input frequency is normally centered at 240 MHz and can be similarly customized. IF bandwidth is limited to 60 MHz.

Equipped with filtered and low noise LDO regulators, and highly selective filters, harmonic and spuri output are suppressed below -60 dBc.

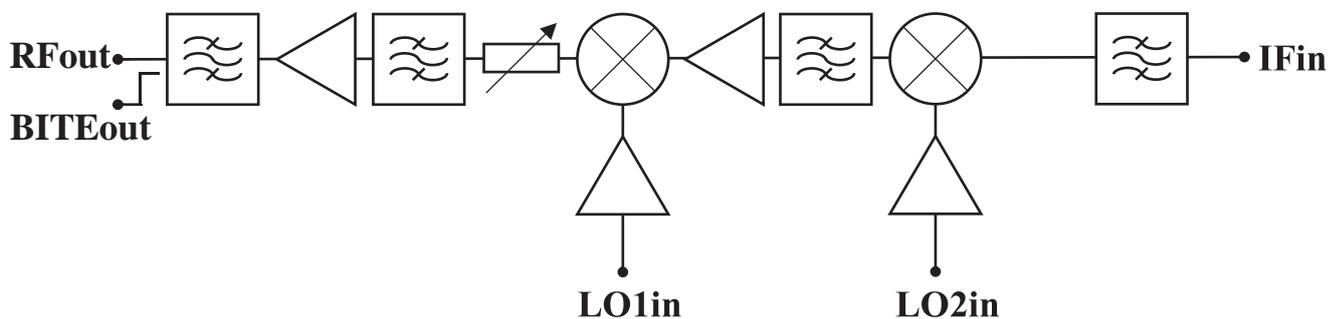
TX1001 features a BITE output for use in automated system tests.

FEATURES

- DAC alias filtering
- High Side LO1 and LO2 mixing
- Selective SAW Filtering
- BITE output

SPECS AT A GLANCE

- 240 MHz IF input
- 5-6 GHz RF output
- +19 dBm linear output
- -60 dBc max spuri



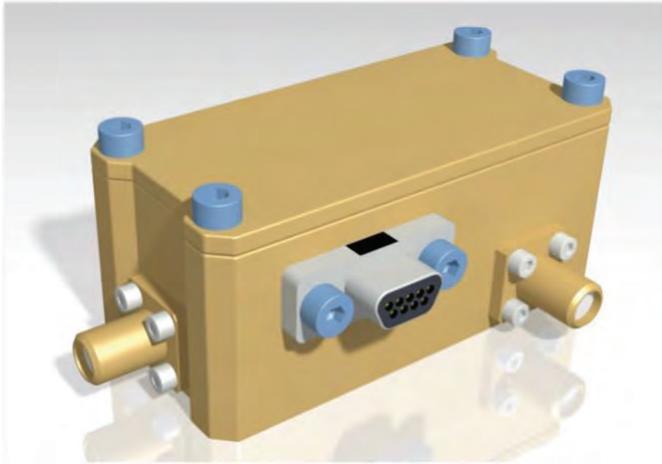
SPECIFICATIONS

| Parameter | Limit | Notes |
|------------------------------------|------------------|---------------------------------------|
| IF Input Band | 210-270 MHz | |
| IF Input Level | 0 dBm max | |
| Output RF Band | 5-6 GHz | Actual freq band specified upon order |
| RF-IF Gain | 19 dB typ | |
| Linear RF Output | 19 dBm | Harmonic output < -60 dBc |
| RF Output P1dB | 22 dBm | |
| BITE Output | -20 dBc | 20 dB coupled to RF output |
| LO Frequencies | -- | LO frequencies available upon order |
| LO Input Power | 0 dBm \pm 2 dB | LO1 and LO2 |
| IF-RF Gain | 31dB typ | |
| IF-RF Gain Adjustment | 1 dB | |
| IF-RF Gain Adjustment Steps | 5-bit, 0/5 V | |
| Gain Adjustment Settling | 200 ns max | From 50% VCTRL to %90 RF |
| DC Power Consumption | 5 W max | |

Full specifications available upon request.

MC1001

WIDEBAND DOWNCONVERTER



DESCRIPTION

MC1001 is wideband downconverter for wideband receiver applications.

The RF to IF signal chain contains IF amplification and digitally controlled attenuator for gain control.

IF output ranges from 0.4 to 2.5 GHz. For fixed frequency narrowband applications, the IF output can be externally filtered to reduce the noise output.

Device consumes 1.5 W typically.

FEATURES

- Adjustable Conversion Gain
- Suitable for high speed ADCs

SPECS AT A GLANCE

- 3-20 GHz RF Input
- 0.5-19.5 GHz LO Input
- 0.4-2.5 GHz IF Output
- 10 dB Noise Figure

SPECIFICATIONS

| Parameter | Limit | Notes |
|-----------------------------|----------------------------------|-------|
| RF Frequency | 3 to 20 GHz | |
| IF Frequency | 0.5 to 2.5 GHz | |
| LO Frequency | 0.5 to 19.5 GHz | |
| Conversion Gain | -27.5 to +5 dB with 0.5 dB steps | |
| Image Rejection | 45 dBc min | |
| LO/RF Isolation | 50 dB typ | |
| Noise Figure | 10 dB max | |
| Input P1dB | 10 dBm min @ 10 GHz typ | |
| DC Power Consumption | 1.5 W typ | |

Full specifications available upon request.

CUSTOMIZED DESIGNS

Asartech designs products customized to platforms, facilities and premises. Products range from printed circuit board and modules to subsystems and turn-key systems.

KR1001/KT1001

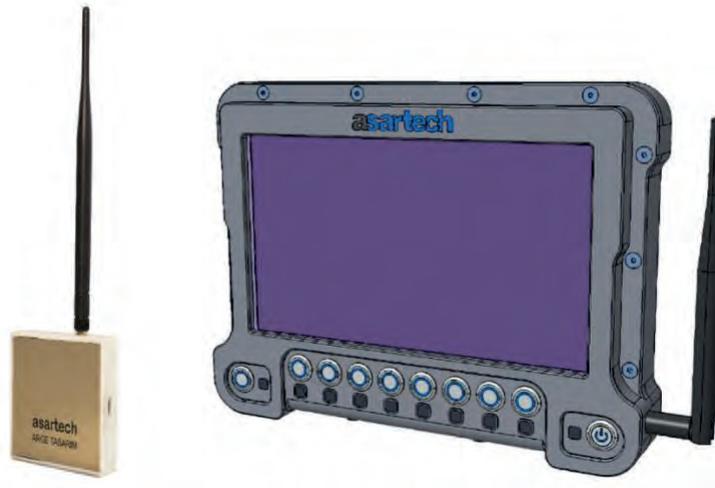
SafEyer

FEATURES

- 1km Communication Range
- Sub-1GHz Transceiver
- Secure Protocol
- Battery Operated

DESCRIPTION

Secure RF transceiver with remote control capability for military applications.



SPECIFICATIONS

| Parameter | Limit | Notes |
|-----------------------|------------------|-----------------------------|
| Frequency | Sub 1 GHz | Data available upon request |
| Output Power | +20 dBm | |
| Range | > 1 km | |
| Frequency Accuracy | ±1 ppm | |
| Supply Voltage | Battery operated | |
| Operation Temperature | -40 to 85 °C | |
| Frequency | Sub 1 GHz | |

Full specifications available upon request.

DA1001

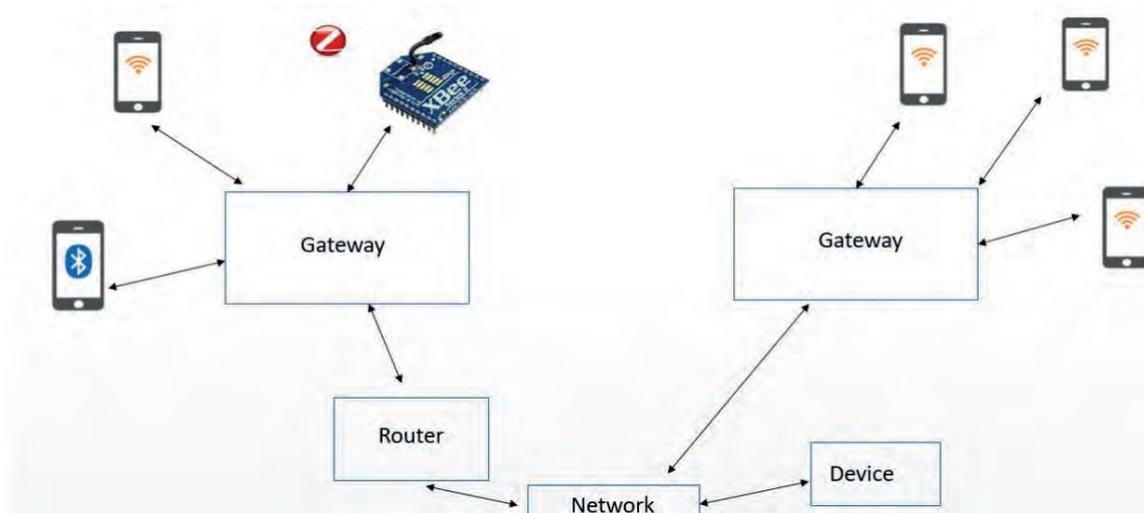
SENSOR TRACKING SYSTEM

FEATURES

- Bluetooth 5.x, Wi-Fi and Sub-1GHz wireless transmission
- Vital and environmental sensors

DESCRIPTION

Wireless personal or property tracking over Bluetooth, Wifi or Sub-1 GHz network.



SPECIFICATIONS

| Parameter | Limit | Notes |
|--------------------|--------------------|-------|
| Frequency | 2.4 GHz, Sub-1 GHz | |
| Output Power | +13 dBm | |
| Frequency Accuracy | ±1 ppm | |
| Harmonics | -60 dBc | |
| Spurious | -60 dBc | |

Full specifications available upon request.

SERVICES

asartech
R&D DESIGN ENGINEERING

SYSTEMS ENGINEERING

FEATURES

- Conceptual Design
- Systems Requirements Engineering
- Systems Design
- Systems Integration
- Systems Verification and Validation

DESCRIPTION

The whole systems engineering life cycle can be implemented and applied to various systems, especially on RF and Microwave and Naval Systems.

NAVAL EXPERTISE AND CONSULTANCY

FEATURES

- 30+ years of Naval Electronic Expertise on various platforms
- Consultancy beginning from conceptual design to naval electronics systems validation and ILS
- Training
- Operational Guidance

DESCRIPTION

An invaluable expertise and experience both in conceptual and operational fields .

INTEGRATED LOGISTIC SUPPORT (ILS)

FEATURES

- Product Life Cycle Management ;
- Beginning from the design Phase
 - Logistics Support
 - Maintenance

DESCRIPTION

The technology working with or within the system engineering to lower a product life cycle cost and decrease demand for logistics by the maintenance system optimization to ease the product support.

SUBSTITUTIONAL DESIGN

FEATURES

- Form-Fit-Functional Design of obsolete systems and products
- Beginning from scratch or from a working sample
- Full design and verification
- Operational validation

DESCRIPTION

The renovative design of obsolete components and systems according to newest and maintainable technologies.

CONTACT

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