

SYN653 系列滤波器

产品概述

SYN653 系列滤波器是由西安同步电子科技有限公司精心设计、自行研发生产的系列射频低通/带通/高通等滤波器,采用先进的微电子组装工艺生产,具备良好的电磁屏蔽性能,频带覆盖 DC~21GHz,通带插损低,带外抑制度高,结构小巧,广泛应用于微波通信、雷达、遥控、遥感、电子侦察、电子对抗、无线电测量等领域。

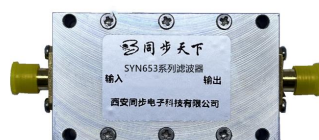
关键词: 射频滤波器,微波滤波器,射频低通滤波器,微波低通滤波器

产品功能

- 1) 高隔离度,低损耗;
- 2) 带宽DC~21GHz。

产品特点

- a) 具有低变频损耗、高隔离度;
- b) 体积小,可靠性高。



典型应用

- 1) 用于信号调制、解调、频谱转换和信号处理;
- 2) 扩频通信系统、高速无线局域网、宽带无线接入系统、蓝牙技术设备及车辆无线自动识别系统等无线电台站的共用频段;
- 3) 导航设备,测试和测量设备,点对点通信,电台,通信基站。

技术指标

| 低通滤波器 | | | | | | | |
|------------------|----------|------|--------|-------------|--------|-----|----------|
| 型号 | 工作频率 | 阻抗 | 插损 | 抑制 | 功率容量 | 接头 | 尺寸 mm |
| SYN653-LPF-100Hz | DC~100Hz | 50 Ω | ≤1.5dB | ≥27dB@400Hz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-200Hz | DC~200Hz | 50 Ω | ≤1.5dB | ≥20dB@500Hz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-300Hz | DC~300Hz | 50 Ω | ≤1.5dB | ≥28dB@1kHz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-400Hz | DC~400Hz | 50 Ω | ≤1.5dB | ≥18dB@1kHz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-1kHz | DC~1kHz | 50 Ω | ≤1.5dB | ≥30dB@3kHz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-2kHz | DC~2kHz | 50 Ω | ≤1.5dB | ≥35dB@6kHz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-3kHz | DC~3kHz | 50 Ω | ≤1.5dB | ≥33dB@9kHz | +23dBm | SMA | 83*40*25 |

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|-------------------|-----------|------|--------|--------------------|--------|-----|----------|
| SYN653-LPF-4kHz | DC~4kHz | 50 Ω | ≤1.5dB | ≥33dB@12kHz | +23dBm | SMA | 83*40*25 |
| SYN653-LPF-10kHz | DC~10kHz | 50 Ω | ≤1.5dB | ≥48dB@30kHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-20kHz | DC~20kHz | 50 Ω | ≤1.5dB | ≥48dB@60kHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-100kHz | DC~100kHz | 50 Ω | ≤1.5dB | ≥48dB@200kHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-200kHz | DC~200kHz | 50 Ω | ≤1.5dB | ≥48dB@400kHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-500kHz | DC~500kHz | 50 Ω | ≤1.5dB | ≥48dB@0.06-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-1MHz | DC~1MHz | 50 Ω | ≤1.5dB | ≥48dB@0.002-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-2MHz | DC~2MHz | 50 Ω | ≤1.5dB | ≥48dB@0.004-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-2.5MHz | DC~2.5MHz | 50 Ω | ≤1.5dB | ≥48dB@0.005-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-5MHz | DC~5MHz | 50 Ω | ≤1.5dB | ≥48dB@0.01-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-10MHz | DC~10MHz | 50 Ω | ≤2.0dB | ≥48dB@0.02-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-20MHz | DC~20MHz | 50 Ω | ≤2.0dB | ≥48dB@0.04-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-30MHz | DC~30MHz | 50 Ω | ≤2.0dB | ≥48dB@0.06-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-40MHz | DC~40MHz | 50 Ω | ≤1.8dB | ≥58dB@0.08-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-50MHz | DC~50MHz | 50 Ω | ≤1.8dB | ≥58dB@0.1-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-100MHz | DC~100MHz | 50 Ω | ≤1.5dB | ≥55dB@0.2-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-110MHz | DC~110MHz | 50 Ω | ≤1.5dB | ≥55dB@0.22-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-200MHz | DC~200MHz | 50 Ω | ≤1.5dB | ≥55dB@0.4-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-400MHz | DC~400MHz | 50 Ω | ≤2.0dB | ≥65dB@0.8-3.0GHz | +23dBm | SMA | 53*30*14 |
| SYN653-LPF-500MHz | DC~500MHz | 50 Ω | ≤1.2dB | ≥55dB@1.0-3.0GHz | +23dBm | SMA | 53*30*14 |
| SYN653-LPF-600MHz | DC~600MHz | 50 Ω | ≤1.2dB | ≥55dB@1.2-3.0GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-700MHz | DC~700MHz | 50 Ω | ≤1.0dB | ≥40dB@1.4-3.0GHz | +23dBm | SMA | 40*12*12 |
| SYN653-LPF-900MHz | DC~900MHz | 50 Ω | ≤1.0dB | ≥40dB@1.8-3.0GHz | +23dBm | SMA | 40*12*12 |
| SYN653-LPF-1GHz | DC~1GHz | 50 Ω | ≤1.0dB | ≥48dB@1.3-4.5GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-1.5GHz | DC~1.5GHz | 50 Ω | ≤1.0dB | ≥48dB@1.8-5.3GHz | +23dBm | SMA | 65*25*12 |
| SYN653-LPF-2GHz | DC~2.0GHz | 50 Ω | ≤1.0dB | ≥60dB@2.38-7.0GHz | +23dBm | SMA | 61*24*10 |
| SYN653-LPF-2.2GHz | DC~2.2GHz | 50 Ω | ≤1.6dB | ≥30dB@2.42-7.0GHz | +23dBm | SMA | 53*30*13 |
| SYN653-LPF-3GHz | DC~3.0GHz | 50 Ω | ≤1.0dB | ≥60dB@3.52-10GHz | +23dBm | SMA | 44*24*10 |
| SYN653-LPF-4GHz | DC~4.0GHz | 50 Ω | ≤1.0dB | ≥60dB@4.5-12.3GHz | +23dBm | SMA | 35*23*10 |
| SYN653-LPF-5GHz | DC~5.0GHz | 50 Ω | ≤1.0dB | ≥60dB@5.58-15GHz | +23dBm | SMA | 35*23*10 |
| SYN653-LPF-6GHz | DC~6.0GHz | 50 Ω | ≤1.0dB | ≥60dB@6.7-15.5GHz | +23dBm | SMA | 29*22*10 |
| SYN653-LPF-7GHz | DC~7.0GHz | 50 Ω | ≤1.0dB | ≥50dB@7.77-15.5GHz | +23dBm | SMA | 31*23*10 |
| SYN653-LPF-8GHz | DC~8.0GHz | 50 Ω | ≤1.0dB | ≥50dB@8.8-16.2GHz | +23dBm | SMA | 31*23*10 |
| SYN653-LPF-9GHz | DC~9.0GHz | 50 Ω | ≤1.0dB | ≥50dB@9.8-17GHz | +23dBm | SMA | 29*21*10 |
| SYN653-LPF-10GHz | DC~10GHz | 50 Ω | ≤1.0dB | ≥50dB@10.9-18.5GHz | +23dBm | SMA | 28*21*10 |
| SYN653-LPF-11GHz | DC~11GHz | 50 Ω | ≤1.0dB | ≥50dB@12.1-19GHz | +23dBm | SMA | 24*19*10 |
| SYN653-LPF-12GHz | DC~12GHz | 50 Ω | ≤1.0dB | ≥50dB@13.1-20GHz | +23dBm | SMA | 24*19*10 |
| SYN653-LPF-13GHz | DC~13GHz | 50 Ω | ≤1.0dB | ≥50dB@14.1-21GHz | +23dBm | SMA | 22*18*10 |
| SYN653-LPF-14GHz | DC~14GHz | 50 Ω | ≤1.0dB | ≥50dB@15.1-22GHz | +23dBm | SMA | 22*18*10 |
| SYN653-LPF-15GHz | DC~15GHz | 50 Ω | ≤1.0dB | ≥50dB@16-22.3GHz | +23dBm | SMA | 21*17*10 |
| SYN653-LPF-16GHz | DC~16GHz | 50 Ω | ≤1.0dB | ≥50dB@17-22.8GHz | +23dBm | SMA | 21*17*10 |
| SYN653-LPF-17GHz | DC~17GHz | 50 Ω | ≤1.0dB | ≥50dB@18.1-24GHz | +23dBm | SMA | 21*17*10 |
| SYN653-LPF-18GHz | DC~18GHz | 50 Ω | ≤1.0dB | ≥50dB@19.1-26GHz | +23dBm | SMA | 21*17*10 |

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| SYN653-LPF-19GHz | DC~19GHz | 50 Ω | ≤1.0dB | ≥50dB@20.1-26GHz | +23dBm | SMA | 17*17*10 |
| SYN653-LPF-20GHz | DC~20GHz | 50 Ω | ≤1.0dB | ≥50dB@21.2-27GHz | +23dBm | SMA | 17*17*10 |
| SYN653-LPF-21GHz | DC~21GHz | 50 Ω | ≤1.0dB | ≥50dB@22.2-27GHz | +23dBm | SMA | 17*17*10 |
| 根据客户要求定制类似产品 | | | | | | | |

| 带通滤波器 | | | | | | | |
|--------------------|--------------|------|--------|-------|--------|-----|----------|
| 型号 | 工作频率 | 阻抗 | 插损 | 抑制 | 功率容量 | 接头 | 尺寸 mm |
| SYN653-BPF-10MHz | 9.5~10.5MHz | 50 Ω | ≤3.0dB | ≥26dB | +23dBm | SMA | 82*43*14 |
| SYN653-BPF-433MHz | 423~443MHz | 50 Ω | ≤3.0dB | ≥60dB | +23dBm | SMA | 53*30*13 |
| SYN653-BPF-750MHz | 735~765MHz | 50 Ω | ≤3.0dB | ≥30dB | +23dBm | SMA | 40*12*10 |
| SYN653-BPF-915MHz | 900~930MHz | 50 Ω | ≤2.5dB | ≥20dB | +23dBm | SMA | 53*30*19 |
| SYN653-BPF-1090MHz | 1075~1105MHz | 50 Ω | ≤1.6dB | ≥30dB | +23dBm | SMA | 53*30*23 |
| SYN653-BPF-1575MHz | 1.56~1.59GHz | 50 Ω | ≤1.5dB | ≥26dB | +23dBm | SMA | 35*27*13 |
| SYN653-BPF-2.45GHz | 2.4~2.5GHz | 50 Ω | ≤1.5dB | ≥26dB | +23dBm | SMA | 35*27*13 |
| SYN653-BPF-3.5GHz | 3.4~3.6GHz | 50 Ω | ≤4.0dB | ≥28dB | +23dBm | SMA | 35*27*13 |
| SYN653-BPF-5.8GHz | 5.4~5.8GHz | 50 Ω | ≤2.0dB | ≥25dB | +23dBm | SMA | 33*28*13 |
| 根据客户要求定制类似产品 | | | | | | | |

| 高通滤波器 | | | | | | | |
|------------------|-----------|------|--------|------------------|--------|-----|----------|
| 型号 | 工作频率 | 阻抗 | 插损 | 抑制 | 功率容量 | 接头 | 尺寸 mm |
| SYN653-HPF-1GHz | 1~6GHz | 50 Ω | ≤1.2dB | ≥50dB@DC-0.78GHz | +23dBm | SMA | 61*23*13 |
| SYN653-HPF-2GHz | 2~19GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-1.58GHz | +23dBm | SMA | 37*18*13 |
| SYN653-HPF-3GHz | 3~21GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-2.36GHz | +23dBm | SMA | 30*17*10 |
| SYN653-HPF-4GHz | 4~23GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-3.2GHz | +23dBm | SMA | 24*16*10 |
| SYN653-HPF-6GHz | 6~24.5GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-4.9GHz | +23dBm | SMA | 21*15*10 |
| SYN653-HPF-10GHz | 10~28GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-8.25GHz | +23dBm | SMA | 15*13*10 |
| SYN653-HPF-12GHz | 12~28GHz | 50 Ω | ≤1.0dB | ≥50dB@DC-9.6GHz | +23dBm | SMA | 15*13*10 |
| SYN653-HPF-15GHz | 15~25GHz | 50 Ω | ≤1.0dB | ≥60dB@DC-13.7GHz | +23dBm | SMA | 24*19*10 |
| SYN653-HPF-18GHz | 18~28GHz | 50 Ω | ≤1.0dB | ≥60dB@DC-16GHz | +23dBm | SMA | 18*16*10 |
| 根据客户要求定制类似产品 | | | | | | | |