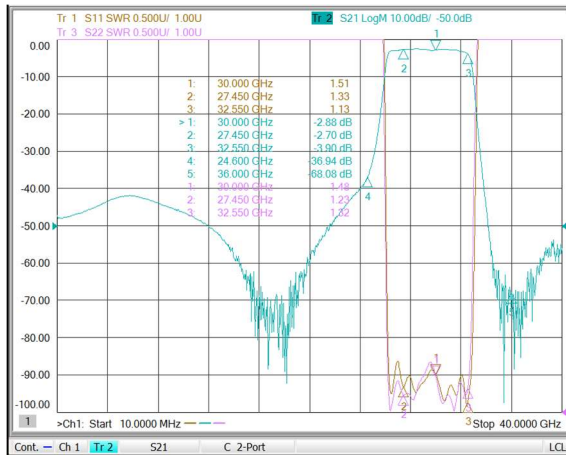


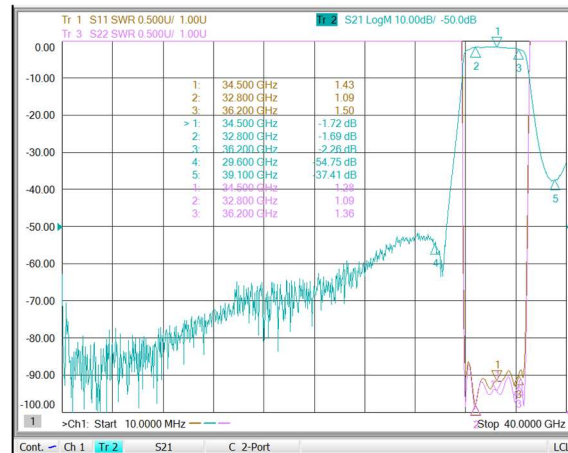


MCV Microwave surface mount ceramic planar filters are suitable for Ka band millimeter wave applications. These filters generally exhibit low insertion loss, excellent attenuation and 3W power handling in small footprint. MCV ceramic planar filters are available in various high K substrates with consistent yield in mass production and excellent quality.

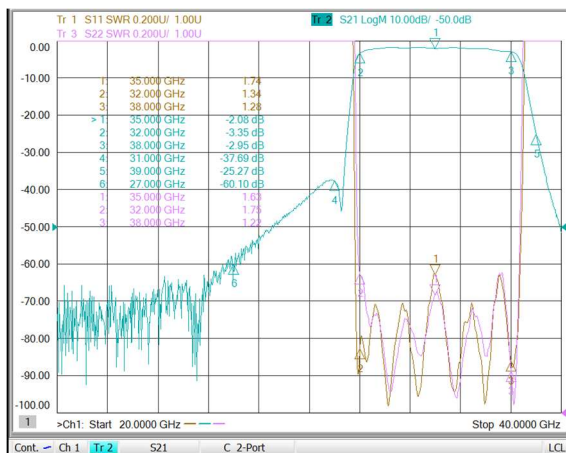
30GHz BPS30G-5R1A1



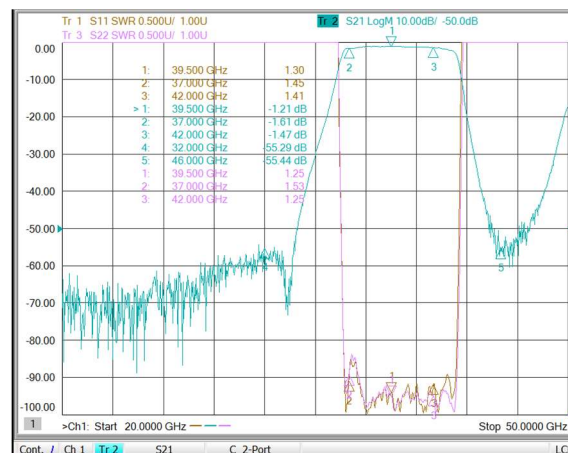
34.5GHz BPS34.5G-3R4A1



35GHz BPS35G-6R0A1



59.5GHz BPS39.5G-5R0A1





Surface Mount Planar Filters

Part Number	Fc (GHz)	BW (GHz)	IL (dB, Fc)	Rejections	Dimensions, (L x W x H)
BSM9.8G-0R2A1	9.8	0.2	2.0 max	30dB @9GHz 30dB @10.8GHz	0.225 x 0.065 x 0.015"
BSM10.6G-0R8A1	10.6	0.8	2.5 max	15dB @9.6GHz & 11.85GHz 30dB @9.35GHz; 20dB @12.1GHz 50dB @9.8GHz; 30dB @12.5GHz 50dB @4GHz & 13GHz 50dB @ 1.7GHz & 17GHz	10 x 5 x 4.5 mm
BSM30G-5R1A1	30	5.1	3.0 max	40dB @DC~24.6GHz 35dB @36GHz~40GHz	8.0 x 2.0 x 0.254 mm
BSM33.5G-4R0A1	33.6	4.0	4.0 max	50dB @DC~25GHz 50dB @39GHz~45GHz	6.5 x 2.5 x 0.254 mm
BSM34G-4R0A1	34	4.0	3.0 max	30dB @2900~3060MHz 25dB @3545~3800 MHz	7.0 x 2.5 x 0.254 mm
BSM34.5G-3R4A1	34.5	3.4	2.0 max	40dBc @29.6GHz 35dBc @39.1GHz	8.0 x 3.0 x 0.254 mm
BSM35G-6R0A1	35	6.0	4.5 max	12dBc @31GHz & 39GHz 50dBc @27GHz	9.0 x 2.5 x 0.254 mm
BSM36G-2R0A1	36	2.0	5.5 max	30dBc @33.5GHz 30dBc @38.5GHz	7.5 x 2.2 x 0.254 mm
BSM39.5G-5R0A1	39.5	5.0	4.5 max	55dBc @32GHz 60dBc @46GHz	6.8 x 2.0 x 0.254 mm

Planar filter application notes

Mounting and Testing: A probe station shall be used to test planar filters.

1. Mounting in a cavity - keeping at least 0.2mm from each side of the wall and 3mm from the top cover.
2. The planar filter ports are interchangeable.
3. Carrier - Low stress conductive epoxy such as ME8456 shall be used to bond planar filter onto a thermally conductive carrier such as Kovar or Mo-Cu.
4. Carrier thickness - At least 0.2mm thick carrier is recommended.



Contact Us

Contact engineering with your electrical specifications for a quote.

sales@mcv-microwave.com