



嘉康电子 JIAKANG

Zhejiang Jiakang Electronics Co., Ltd.

Jiakang Dielectric Filters for Wi-Fi 5/6/6E/7/8

PN	Frequency [MHz]	Insertion Loss [dB Max]	Att [min]	Dimensions LxWxT [mm]
DFS0208R5502P665A1-R1	5170-5835	2.0 2.0 at 25°C 2.5 at -40...105°C	55dB at 6100-7125 MHz	9.40*4.50*2.40
DFS0206R6612P1025A1-R1	6100-7125	3.0 at 5490-5835MHz 3.5 at 5835-5895MHz	55dB at 5170-5835 MHz 50dB at 5170-5330 MHz 50dB at 6105-7125 MHz	9.35*3.95*2.60
DFS0208R5692P405A1-R1	5490-5895	2.8 at 5750-5835 MHz	60.0typ.(55.0min)dB at 5945-6315 MHz	9.40*5.10*3.00
DFS0307R6587P1325M1-R1	5925-7250	3.5 at 5945-5955 MHz	63.0typ.(60.0min)dB at 5625-5815 MHz	9.40*4.10*3.00
DFS0307R5492P685A1-R1	5150-5835	2.7 at 5150-5825 MHz	50dB at 5990-7125 MHz	9.40*5.10*3.00
DFS0307R6525P1200A1-R1	5925-7125	3.5 at 5925-5945 MHz	45dB at 5640-5835 MHz	9.40*4.10*3.00
DFS0307R5442P585A1-R1	5150-5735	2.2	50dB at 5925-7125MHz	9.40*5.10*3.00
DFS0306R6450P1050A1-R1	5925-6975	3.0	55.0 at 5150-5725MHz	9.60*4.10*3.00
DFC0307R6400P1000A2-R1	5900-6900	2.5	30.0 at 5460MHz	9.40*3.00*2.80

Items	DFS0307R5492P685M1-R1	DFS0307R6587P1325M1-R1	
Center frequency MHz	5492.5	6587	
Bandwidth [BW] MHz	5150-5835	5925-7250	
Insertion Loss in BW dB	2.8max.@5750-5835 MHz	3.5max.@5945-5955 MHz	
Ripple in BW dB	2.0max.@5150-5750 MHz 2.0max.@5785-5835 MHz	1.8max.@5925-5945 MHz 1.0max.@5945-5955 MHz	
Return Loss in BW dB	10.0 min.@-40°C ~ 85°C	10.0 min.@-40°C ~ 85°C	
Attenuation[Absolute Value] dB	60.0typ. (55.0min.) @5945-6315 MHz 50.0min.@5945-6315 MHz 45.0min.@6315-7125 MHz	63.0typ. (60.0min.) @5625-5815 MHz 50.0min.@5170-5625 MHz 55.0min.@5625-5815 MHz	
Input Power W	3	3	
In/Out Impedance ohm	50	50	

Items	Requirement	
Center frequency MHz	3450	
Bandwidth [BW] MHz	fo±150.0	
Insertion Loss in BW dB	2.0 max. (+15°C ~ +35°C) 2.2 max. (-40°C ~ +85°C)	
Ripple in BW dB	1.5 max.	
Return Loss in BW dB	14.0 min.	
Attenuation[Absolute Value] dB	30.0 min. @ [2400.0 ~ 2700.0] MHz 36.0 min. @ [3000.0 ~ 3240.0] MHz 15.0 min. @ [3240.0 ~ 3280.0] MHz 15.0 min. @ [3620.0 ~ 3660.0] MHz 36.0 min. @ [3660.0 ~ 3800.0] MHz 30.0 min. @ [3800.0 ~ 4500.0] MHz	
Port Impedance Ohm	50	
Handling Power W	Average 10.0 max. / Peak 100.0 max.	

Technical drawing of a dielectric filter showing dimensions and material specifications. The drawing includes a top view with dimensions 32.60±0.30mm, 18.80±0.30mm, and 6.00±0.30mm. It also shows a side view with dimensions 11.30±0.02mm (P(n)), 11.00±0.04mm (P(n)), and 0.15(Frings). A legend indicates materials: Al-foil, Res, Pla, PCB, and Ceramic Block.



JIAKANG

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Enable Uncompromised Connectivity

Advanced Dielectric Filters for Next-Gen Wireless Devices

With **40** years of expertise, Jiakang Electronics delivers high-performance dielectric filters for wireless communication devices. Our proprietary material formulations and patented designs ensure superior signal integrity and reliability. Backed by automotive-grade quality management and high-volume production capabilities, we provide cutting-edge solutions that meet the most demanding global standards. Innovation, precision, and scale-engineered for excellence.

WiFi 7

High-Q Compact Size Dielectric Ceramic Filter

Features

- Ultra-wide bandwidth
- Low insertion loss, High attenuation
- High temperature stability
- High-power handling

Applications

- Access points
- Wireless routers
- CPE
- Broadband gateways
- Base station
- IOT

High-Q Low-Loss Waveguide Filter