



Apex Microwave Co. LTD

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Add: Yuehu Technology Center, Wuhou District, Chengdu, Sichuan, China

# Cavity Combiner A5CC758M2690M70NSDL4

## Revision record

Date	Version	Author	Revision description	Comment
2024/09/14	V1.3	Lee	Created	/

## Electrical specification

Parameter	Specifications				
	758-803MHz	851-894MHz	1930-1990MHz	2110-2193MHz	2620-2690MHz
Frequency range	758-803MHz	851-894MHz	1930-1990MHz	2110-2193MHz	2620-2690MHz
Center frequency	780.5MHz	872.5MHz	1960MHz	2151.5MHz	2655MHz
Return loss (Normal temp)	≥18dB	≥18dB	≥18dB	≥18dB	≥18dB
Return loss (Full temp)	≥18dB	≥18dB	≥18dB	≥18dB	≥15dB
Center frequency insertion loss(Normal temp)	≤0.6dB	≤0.6dB	≤0.6dB	≤0.5dB	≤0.6dB
Center frequency insertion loss(Full temp)	≤0.65dB	≤0.65dB	≤0.65dB	≤0.5dB	≤0.65dB
Insertion loss (Normal temp)	≤1.3dB	≤1.2dB	≤1.3dB	≤1.2dB	≤1.9dB
Insertion loss (Full temp)	≤1.35dB	≤1.2dB	≤1.6dB	≤1.2dB	≤2.1dB
Ripple (Normal temp)	≤0.9dB	≤0.7dB	≤0.7dB	≤0.7dB	≤1.5dB
Ripple (Full temp)	≤0.9dB	≤0.7dB	≤1.3dB	≤0.7dB	≤1.7dB



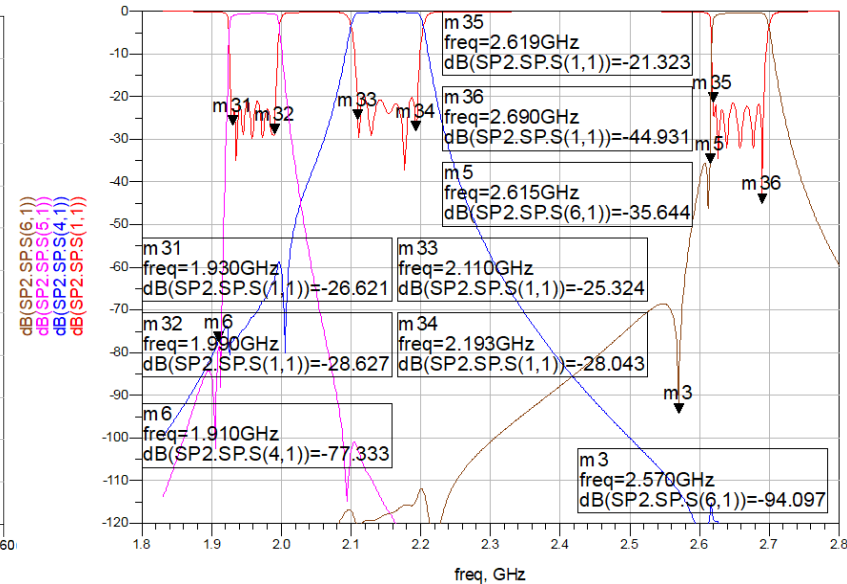
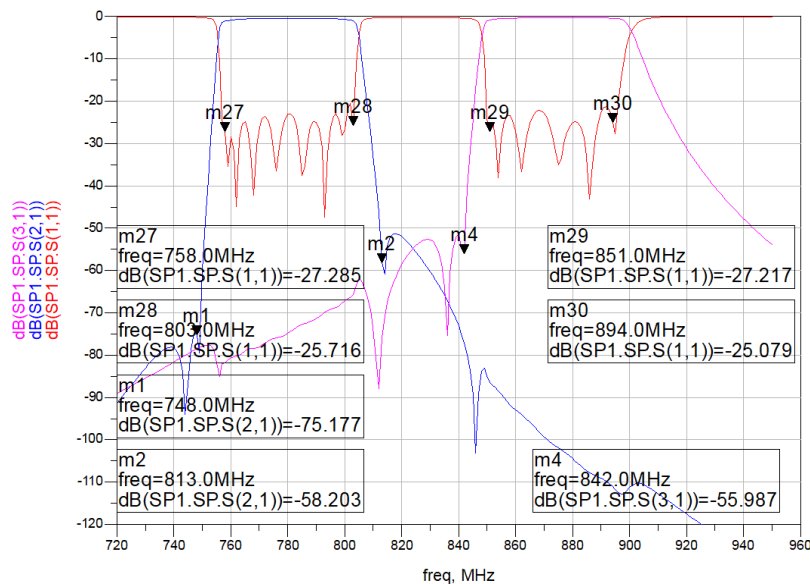
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Rejection	$\geq 40\text{dB@DC-700MHz}$ $\geq 70\text{dB@703-748MHz}$ $\geq 48\text{dB@813-841MHz}$ $\geq 70\text{dB@1710-3800MHz}$	$\geq 40\text{dB@DC-700MHz}$ $\geq 63\text{dB@703-748MHz}$ $\geq 45\text{dB@813-841MHz}$ $\geq 70\text{dB@1710-3800MHz}$	$\geq 40\text{dB@DC-700MHz}$ $\geq 70\text{dB@703-841MHz}$ $\geq 70\text{dB@1710-1910MHz}$ $\geq 70\text{dB@2500-3800MHz}$	$\geq 70\text{dB@DC-1910MHz}$ $\geq 70\text{dB@2500-3800MHz}$	$\geq 40\text{dB@DC-700MHz}$ $\geq 70\text{dB@703-1910MHz}$ $\geq 62\text{dB@2500-2570MHz}$ $\geq 30\text{dB@2575-2615MHz}$ $\geq 70\text{dB@3300-3800MHz}$
Input power	$\leq 60\text{W}$ Average handling power at every input port				
Output power	$\leq 300\text{W}$ Average handling power at COM port				
Impedance	50 $\Omega$				
Temperature range	-40°C to +85°C				

### Simulation curve



### Mechanical specification

Parameter	Specifications
Dimension	L x W x H: 260mm x 182mm x 36mm (41.0mm Max)
Input connectors	SMA-Female
COM connector	N-Female
Thread size & Hole callout info	Front: 8-M3 deep 8.0mm Bottom: 4-M4 deep 10.0mm
Finish	Black (Paint spraying)
Weight	≤1.7kg
Notes	Material shall be RoHS 6/6

### Outline

