



Apex Microwave Co. LTD

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

Cavity Combiner A5CC758M2690M70NSDL2

Revision record

Date	Version	Author	Revision description	Comment
2024/09/13	V1.0	Lee	Created	/

Electrical specification

Parameter	Specifications				
	758-803MHz	869-894MHz	1930-1990MHz	2110-2200MHz	2620-2690MHz
Frequency range	758-803MHz	869-894MHz	1930-1990MHz	2110-2200MHz	2620-2690MHz
Center frequency	780.5MHz	881.5MHz	1960MHz	2155MHz	2655MHz
Return loss	≥18dB	≥18dB	≥18dB	≥18dB	≥18dB
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	≤1.2dB
Insertion loss (Full temp)	≤1.3dB	≤1.2dB	≤1.6dB	≤1.2dB	≤1.2dB
Ripple (Normal temp)	≤0.9dB	≤0.7dB	≤0.7dB	≤0.7dB	≤0.7dB
Ripple (Full temp)	≤1.0dB	≤0.7dB	≤1.3dB	≤0.7dB	≤0.8dB
Rejection	≥40dB@DC-700MHz	≥40dB@DC-700MH	≥40dB@DC-700MHz	≥40dB@DC-700MHz	≥40dB@DC-700MHz



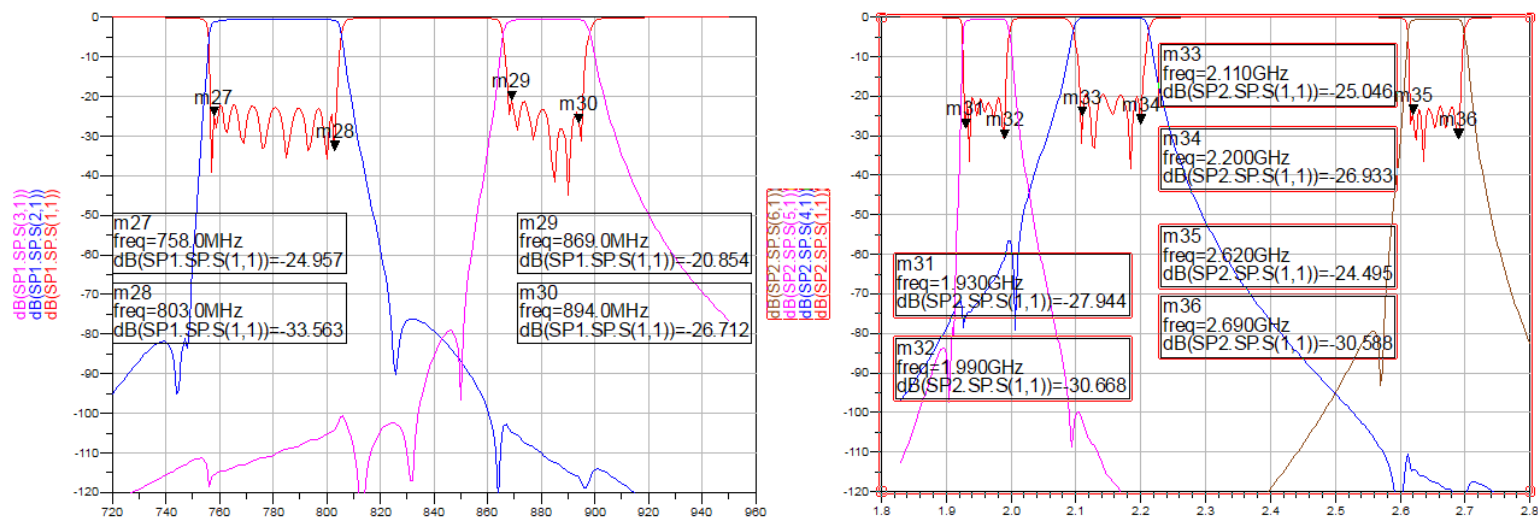
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	$\geq 75\text{dB}@703\text{-}748\text{MHz}$ $\geq 70\text{dB}@824\text{-}849\text{MHz}$ $\geq 70\text{dB}@1850\text{-}1910\text{MHz}$ $\geq 70\text{dB}@1710\text{-}1770\text{MHz}$ $\geq 70\text{dB}@2500\text{-}2570\text{MHz}$ $\geq 40\text{dB}@2750\text{-}3700\text{MHz}$	$\geq 70\text{dB}@703\text{-}748\text{MHz}$ $\geq 75\text{dB}@824\text{-}849\text{MHz}$ $\geq 70\text{dB}@1850\text{-}1910\text{MHz}$ $\geq 70\text{dB}@1710\text{-}1770\text{MHz}$ $\geq 70\text{dB}@2500\text{-}2570\text{MHz}$ $\geq 40\text{dB}@2750\text{-}3700\text{MHz}$	$\geq 70\text{dB}@703\text{-}748\text{MHz}$ $\geq 70\text{dB}@824\text{-}849\text{MHz}$ $\geq 75\text{dB}@1850\text{-}1910\text{MHz}$ $\geq 75\text{dB}@1710\text{-}1770\text{MHz}$ $\geq 70\text{dB}@2500\text{-}2570\text{MHz}$ $\geq 40\text{dB}@2750\text{-}3700\text{MHz}$	$\geq 70\text{dB}@703\text{-}748\text{MHz}$ $\geq 70\text{dB}@824\text{-}849\text{MHz}$ $\geq 75\text{dB}@1850\text{-}1910\text{MHz}$ $\geq 75\text{dB}@1710\text{-}1770\text{MHz}$ $\geq 70\text{dB}@2500\text{-}2570\text{MHz}$ $\geq 40\text{dB}@2750\text{-}3700\text{MHz}$	$\geq 70\text{dB}@703\text{-}748\text{MHz}$ $\geq 70\text{dB}@824\text{-}849\text{MHz}$ $\geq 70\text{dB}@1850\text{-}1910\text{MHz}$ $\geq 70\text{dB}@1710\text{-}1770\text{MHz}$ $\geq 75\text{dB}@2500\text{-}2570\text{MHz}$ $\geq 40\text{dB}@2750\text{-}3700\text{MHz}$
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 Ω				
Temperature range	-40°C to $+85^{\circ}\text{C}$				

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

