



# SHOULDER ELECTRONICS LIMITED

## SAW FILTER FOR PAGER

### FOR 150MHz RANGE

Part Number	HDF139M	HDF147M	HDF155M	HDF163M	HDF171M	<a href="#">SAMPLE DIMENSIONS TEST CIRCUIT</a>
Nominal Center Frequency (fo) (MHz)	139	147	155	163	171	
Insertion Loss (dB)    i)fo-100MHz to fo-46.8MHz    ii)fo-46.8MHz to fo-38.8MHz iii)fo <sub>i</sub> ±4MHz            iv)fo <sub>i</sub> ±38.8MHz to 2.5Xfo	50min	50min	50min		50min 50min	
	50min	50min	50min		50min 50min	
	6.5min	6.5min	6.5min	50min 50min	6.5min	
	42min	42min	42min	6.5min 42min	42min	
Impedance (Nominal)	210 <sub>i</sub> //-13.3pF	210 <sub>i</sub> //-12.1pF	210 <sub>i</sub> //-12.3pF	210 <sub>i</sub> //-11.0pF	210 <sub>i</sub> //-10.9pF	

### FOR 280MHz RANGE

Part Number	HDF280M	HDF281M	<a href="#">SAMPLE DIMENSIONS TEST CIRCUIT</a>
Nominal Center Frequency (fo) (MHz)	280.0	281.0	
Insertion Loss (dB)    i)fo-100MHz to fo-37.5MHz    ii)fo <sub>i</sub> ±5MHz            iii)fo+37.5MHz to fo+100MHz	48min		
	4.5max	48min 4.5max	
	40min	40min	
Ripple(within fo <sub>i</sub> ±5MHz)dB	2.0max	2.0max	
Impedance (Nominal)	230 <sub>i</sub> // -0.2pF	230 <sub>i</sub> //-0.2pF	

### FOR 320MHz RANGE

Part Number	HDF325M	<a href="#">SAMPLE DIMENSIONS TEST CIRCUIT</a>
Nominal Center Frequency (fo) (MHz)	32.5	
Insertion Loss (dB) i)fo-100MHz to fo-39.5MHz ii)fo <sub>i</sub> ±3.3MHz iii)fo+39.5MHz to fo+100MHz	48min	
	4.5max	
	40min	
Ripple(within fo <sub>i</sub> ±3.3MHz)dB	2.0max	
Impedance (Nominal)	230 <sub>i</sub> // -0.2pF	

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