



**MSF 150 SERIES WIDE BAND SAW FILTERS FOR PAGERS**

PART NUMBER	MSF 139	MSF 147	MSF 155	MSF 163	MSF 171
CENTER FREQUENCY (fo)	139 MHz	147 MHz	155 MHz	163 MHz	171 MHz
INSERTION LOSS					
fo (-100 MHz TO 38.8 MHz)	50 dB MIN	50 dB MIN	50 dB MIN	50 dB MIN	50 dB MIN
fo (±4 MHz)	6.5 dB MAX	6.5 dB MAX	6.5 dB MAX	6.5 dB MAX	6.5 dB MAX
fo (+38.8 MHz TO 2.5 x fo)	42 dB MIN	42 dB MIN	42 dB MIN	42 dB MIN	42 dB MIN
INPUT/OUTPUT IMPEDANCE	210Ω/ -13.3pF	210Ω/ -12.1pF	210Ω/-12.3pF	210Ω/ -13.3pF	210Ω/-10.9pF

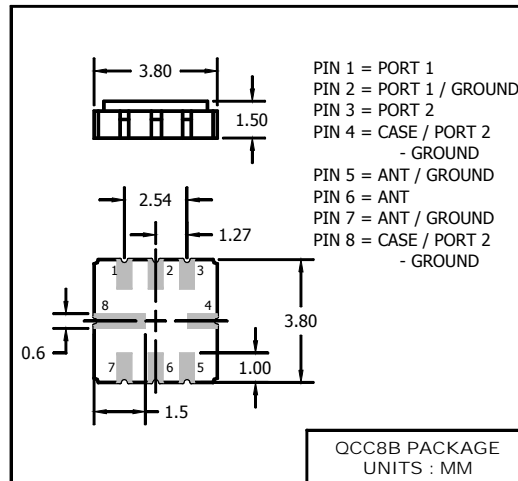
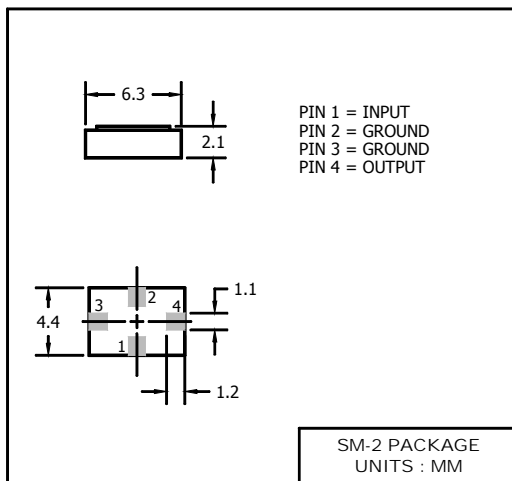
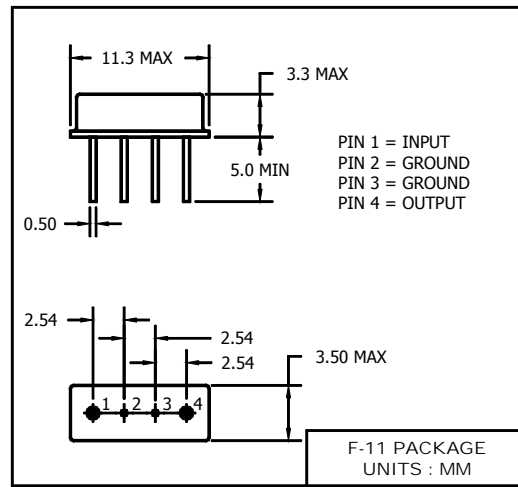
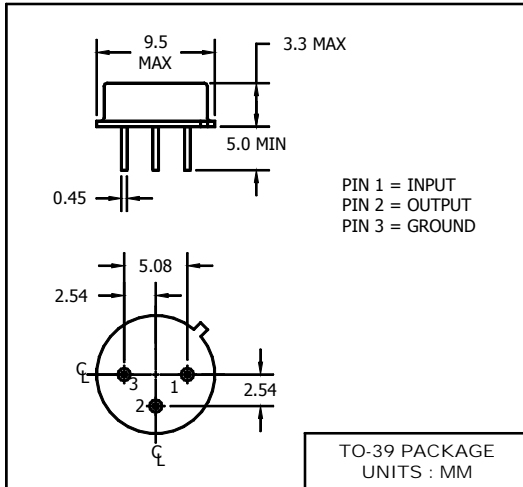
**MSF SERIES WIDE BAND SAW FILTERS FOR WIRELESS COMMUNICATION AND SATELLITE PROGRAM RECEIVERS**

PART NUMBER	CENTER FREQUENCY (MHz)	BAND WIDTH (kHz)	INSERTION LOSS (dB)	PACKAGES
MSF 400	400.00	6	<3.5	T0-39; F11; SMD
MSF 429.3	429.30	6	<3.5	T0-39; F11; SMD
MSF 465A	465.00	6	<3.5	F11; SMD
MSF 465B	465.00	6	<3.5	F11; SMD
MSF 841	841.00	5	<3.5	T0-39; F11; SMD
MSF 886	886.00	15	<3.5	T0-39; F11; SMD
MSF 868.35	868.35	15	<3.5	T0-39; F11; SMD
MSF 930	930.00	15	<3.5	T0-39; F11; SMD
MSF 936	936.00	15	<3.5	T0-39; F11; SMD
MSF 480-1	480.00	18	<21.0	T0-39; SMD
MSF 480-2	480.00	27	<21.5	T0-39; SMD
MSF 480-3	480.00	36	<22.5	T0-39; SMD
MSF 479.5	479.50	27	<21.5	F11; SMD
MSF 479.5-5	479.50	15/27	<24.0/<24.0	T0-39; SMD
MSF 479.5-6	479.50	18/27	<22.1/<22.5	T0-39; SMD
MSF 479.5-7	479.50	27/36	<24.5/<23.6	T0-39; SMD
MSF 479.5-8	479.50	27/54	<22.0/<27.5	T0-39; SMD

**MSF SERIES NARROW BAND SAW FILTERS FOR WIRELESS RECEIVERS**

PART NUMBER	CENTER FREQUENCY (MHz)	FREQUENCY TOLERANCE (kHz)	BAND WIDTH (kHz)	INSERTION LOSS (dB)	PACKAGES
MSF 315A	315.00	±100	700	≤5.0	T0-39; F11; SMD
MSF 418A	418.00	±100	700	≤5.0	T0-39; F11; SMD
MSF 433A	433.92	±100	700	≤5.0	T0-39; F11; SMD
MSF 868.35	868.35	±100	800	≤5.0	T0-39; F11; SMD
MSF 916.50	916.50	±100	800	≤5.0	T0-39; F11; SMD

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**SAMPLE PART NUMBER**

**PART NUMBER – PACKAGE**

EXAMPLE:  
MSF 400 – TO-39  
MSF 930 – QCC8B