

Data summary from info provided by:  
 ICE many years ago to David Montgomery  
 K5ER  
 W5WZ observing "as-built" values in 419 unit

Info to assist with repairs to ICE 419 style band pass filters

Spreadsheet created  
 26 Jan 2020 by W5WZ

Band	Resonating	Comment	Mouser Part #	Mouser Description	Cost 26-Jan-2020
160	2-5,600pf	Use 2 x 2,200 in parallel	598-CDV19FF222JO3F	Mica Capacitors 2200pF 1000V +/-0.05%	\$ 8.21
80	2-2,200pf				
40	2-2,200 pf				
20	2-940pf	Use 2 x 470 in parallel	598-CDV19FF471JO3F	Mica Capacitors 470pF 1000V +/-0.05%	\$ 4.02
15	2-660pf	Use 2 x 330 in parallel	598-CDV19FF331JO3F	Mica Capacitors 330pF 1000V +/-0.05%	\$ 4.23
10	2-540pf	Use 2 x 270 in parallel	598-CDV19FF271JO3F	Mica Capacitors 270pF 1000V +/-0.05%	\$ 4.09

Band	Coupling	Comment	Mouser Part #	Mouser Description	Cost 26-Jan-2020
160	1,800pf	Use 1 x 1,800 in series	598-CDV16FF182JO3F	Mica Capacitors 1800pF 1000V +/-5%	\$ 5.90
80	900pf	Use 1 x 910 in series	598-CDV16FF911JO3	Mica Capacitors 910pF 1000V +/-5%	\$ 4.49
40	470pf	Use 1 x 470 in series	598-CDV19FF471JO3F	Mica Capacitors 470pF 1000V +/-0.05%	\$ 4.02
20	240pf	Use 1 x 270 in series	598-CDV19FF271JO3F	Mica Capacitors 270pF 1000V +/-0.05%	\$ 4.09
15	108pf	Use 2 x 270 in series	598-CDV19FF271JO3F	Mica Capacitors 270pF 1000V +/-0.05%	\$ 4.09
10	78pf	Use 2 x 180 in series	598-CDV19FF181JO3F	Mica Capacitors 180pF 1000V +/-0.05%	\$ 3.90

How to read the VALUES & PART NUMBERS sheet  
 The capacitances listed are DESIGN values. As-built may differ.  
 E.G. 10 meters:  
 540pf on the radio side - actually (2) 270pf in parallel  
 540pf on the antenna side - actually (2) 270pf in parallel  
 78pf coupling - actually 50pf in parallel with 33pf = 83pf