

- Ideal for DSB Wireless Receivers
- Constant Group Delay
- Improved ESD capability by integrated shunt resistors
- Rugged, Hermetic, Low Profile TO-39 Package

SF480-7

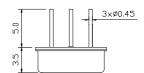
Absolute Maximum Rating (Ta=25°C)				
Parameter	Rating	Unit		
DC Voltage VDC	0	V		
AC Voltage Vpp	5 (50Hz/60Hz)	V		
Operating Temperature Range	-20 ~ +80	°C		
Storage Temperature Range	-40 ~ +85	°C		

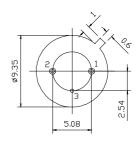
Specifications							
	Parameter	Sym	Minimum	Typical	Maximum	Unit	
Frequency (25°C)	Nominal Frequency	fc	NS	479.500	NS	MHz	
	Tolerance from 479.50 MHz	Δfc	-	±1.0	-	MHz	
Insertion Loss		IL	-	21.0	22.5	dB	
3dB Bandwidth		BW3	=	36.2	-	MHz	
Relative Attention	462.0 MHz	-	-	3.0	4.2	dB	
	498.0 MHz	-	-	2.9	4.2	dB	
Lower Sidelobe	430.0 ~ 450.0 MHz	-	36.0	41.0	-	dB	
Upper Sidelobe	510.0 ~ 530.0 MHz	-	36.0	42.0	-	dB	
Reflected Wave Signal Suppression		-	40.0	48.0	-	dB	
0.1μs ~ 2.0μs after Main Pulse							
Amplitude Ripple	467.0 ~ 493.0 MHz	-	-	0.3	0.5	dB	
Amplitude Tilt	467.0 ~ 493.0 MHz	-	-	0.02	-	dbm/Mhz	
Group Delay	480.000 MHz	-	-	274.0	-	ns	
Group Delay Ripple	466.5 ~ 493.5 MHz	-	-	1.4	3.0	ns	
Impedance at 479.5 MHz Input Zin = Rin Cin		-	-	60 4.8	-	ΩpF	
	Output Zout = Rout Cout	-	-	260 3.1	-	Ω∏pF	
Temperature Coefficient of Frequency		FTC	-	-86	-	ppm/K	
DC Insulation Resistance Between any Two Pins		-	1.0	_	_	MΩ	

NS = Not Specified

Notes Package Outline (TO-39-3)

- 1. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture, which is connected to a 50 Ω test system (VSWR ≤ 1.2:1). The test fixture's L and C are adjusted for minimum insertion loss at the filter center frequency. fc Note the insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality. The optimum impedance matching component values are dependent on circuit parasitic losses.
- 2. The frequency fc is defined as the midpoint between the 3dB frequency.
- Unless notes otherwise, specifications apply over the entire specified operating temperature range.
- The design, manufacturing process, and specifications of this device are subject to change without notice.
- The turnover temperature, To is the temperature of maximum (or turnover) frequency, fc the nominal frequency at any case temperature, TC, may be calculated from: f = fc [1- FTC(To-Tc)²].





Pin	Connection
1	Input/Output
2	Output/Input
3	Ground

All dimensions are in mm