- ***Ideal for DSB Wireless Receivers***
- ***Constant Group Delay***
- ***Improved ESD capability by integrated shunt resistors***
- ***Optimized group delay time***

SF480-7

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

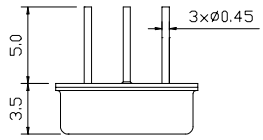
Specifications						
Parameter		Sym	Minimum	Typical	Maximum	Unit
Frequency (25°C)	Nominal Frequency	fc	NS	480.000	NS	MHz
	Tolerance from 480.000 MHz	Δfc	-	±1.0	-	MHz
Insertion Loss		IL	-	21.0	22.5	dB
3dB Bandwidth		BW_3	-	36.2	-	MHz
Relative Attention	462.0 MHz	-	-	3.0	4.2	dB
	498.0 MHz	-	-	2.9	4.2	dB
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 0.1μs ~ 2.0μs after Main Pulse		-	40.0	48.0	-	dB
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 480 MHz	Input Zin = Rin || Cin	-	-	60||4.8	-	Ω||pF
	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

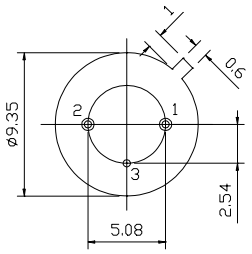
NS = Not Specified

Notes

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.
3. Unless notes otherwise, specifications apply over the entire specified operating temperature range.
4. The design, manufacturing process, and specifications of this device are subject to change without notice.
5. 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 : $f = fc\ [\ 1- FTC(To-Tc)^2]$.

Package Outline (TO-39-3)





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

All dimensions are in mm

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