

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

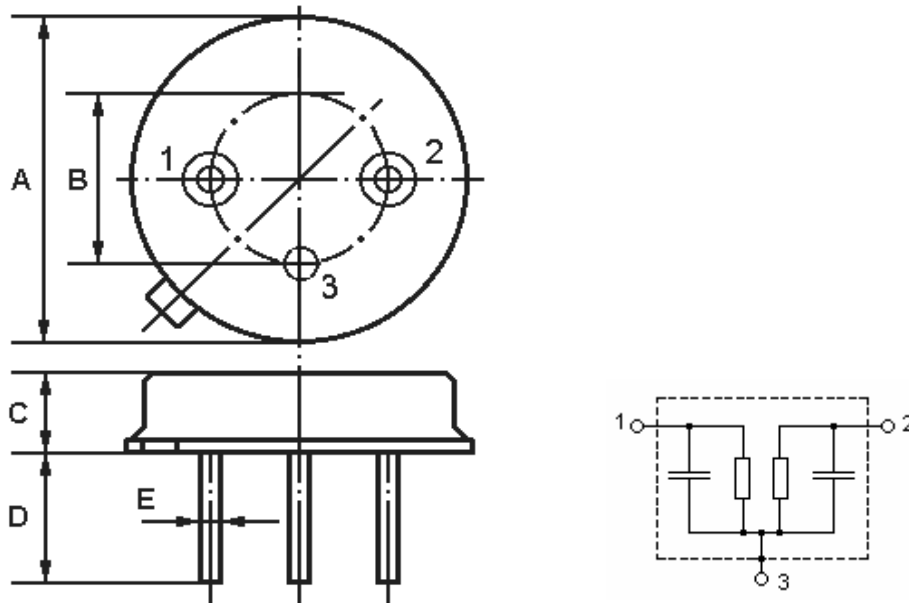
Spec no: TO39F-04795-007-NJ-A

1. Features

For DBS receivers with constant group delay.

2. Type : TO39

3. Product Dimension



Pin	Configuration
1	Input / Output
2	Output / Input
3	Case Ground

Sign	Data (unit: mm)	Sign	Data(unit: mm)
A	9.35±0.20	D	3±0.20
B	5.08±0.20	E	0.45±0.20
C	3.30±0.20		

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4. Performance

4-1. Maximum Ratings

Rating		Value	Units
AC Voltage Between Any Two Pins	V_{PP}	5	V
DC Voltage Between Any Two Pins	V_{DC}	0	V
Storage temperature range	T_{stg}	-40 to +85	
Operable temperature range	T_A	-25 to +85	

4-2. Electronic Characteristics

Reference temperature: $T_A = 25$

Terminating source impedance: $Z_S = 50 \Omega$

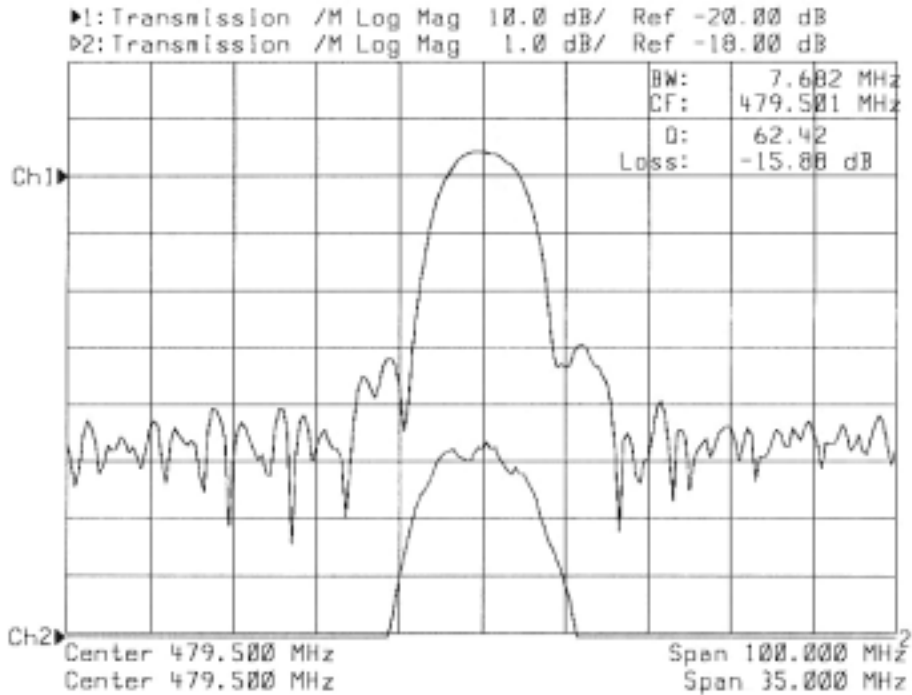
Terminating load impedance: $Z_L = 50 \Omega$

Item	Min.	Typ.	Max.	Unit
Center Frequency f_C		479.50		MHz
Insertion attenuation 479.50 MHz α (Reference level for the following data)	--	18.0	22.0	dB
Pass bandwidth $\alpha_{rel} \leq 3dB$ B_{3dB}	6.5	7.5	8.5	MHz
Relative attenuation α_{rel}				
Lower sidelobe 429.50 ... 468.00 MHz	32.0	45.0	--	dB
Upper sidelobe 491.00 ... 529.50 MHz	30.0	42.0	--	dB
Reflected wave signal suppression 0.13 μ s ... 2.0 μ s after main pulse	40.0	46.0	--	dB
Group delay (aperture 0.25MHz) 479.50 MHz τ	--	290.0	--	ns
Group delay ripple (p-p) 476.00 ... 483.00 MHz $\Delta \tau$	--	15.0	30.0	ns
Temperature coefficient of frequency TC_f	--	-94	--	ppm/K

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5. Frequency Response



6. Notice

Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with $VSWR \leq 1.2:1$. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_c . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.