

Data Sheet B 686





SAW Components	В 686
Satellite Receiver Filter	480,00 MHz

**Data Sheet** 

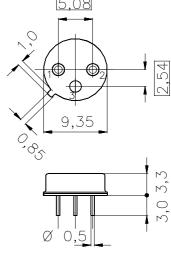
#### **Features**

- IF filter for DSB receivers
- Constant group delay

#### **Terminals**

■ Gold-plated NiFeCo alloy

# Metal package TO 39

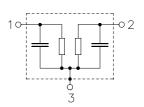


Dimensions in mm, approx. weight 1,0 g

# Pin configuration

1	Input	(Output)		
2	Output	(Input)		

3 Ground



Туре	Ordering code	Marking and Package according to	Packing according to		
B 686	B39481-B 686-B510	C61157-A7-A28	F61064-V8011-Z000		

Electrostatic Sensitive Device (ESD)

# **Maximum ratings**

Operable temperature range	$T_{A}$	-25/+85	°C	
Storage temperature range	$T_{\rm stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	0	V	between any terminals
AC voltages	$V_{\sf pp}$	5	V	between any terminals



**Satellite Receiver Filter** 480,00 MHz

**Data Sheet** 

#### Characteristics

 $T_{A}$  = 25 °C  $Z_{S}$  = 50  $\Omega$   $Z_{L}$  = 50  $\Omega$ 3,6 MHz Reference temperature: Terminating source impedance: Terminating load impedance: Group delay aperture

			min.	typ.	max.	
Insertion attenuation Reference level for the following data	480,00 MH	z α	_	21,0	22,5	dB
Center frequency		$f_{\mathtt{C}}$	479,00	480,00	481,00	MHz
Pass bandwidth	$lpha_{\text{rel}} \leq 3 \text{ d}$	В <i>В</i> <sub>3dВ</sub>	_	36,2	_	MHz
Relative attenuation  Lower sidelobe  Upper sidelobe	462,00 MH 498,00 MH 430,00 450,00 MH 510,00 530,00 MH	z z	— — 36,0 36,0	3,0 2,9 41,0 42,0	4,2 4,2 — —	dB dB dB dB
<b>Reflected wave signal suppression</b> 0,1μs 2,0 μs after main pulse			40,0	48,0	_	dB
Amplitude ripple (p-p	) 467,00 493,00 MH	Δα	_	0,3	0,5	dB
Amplitude tilt	467,00 493,00 MH	z	_	0,02	_	dB/MHz
Group delay	480,00 MH	lzτ	_	274,0	_	ns
Group delay ripple (p-	- <b>p)</b> 466,50 493,50 MH	Δτ z	_	1,4	3,0	ns
•	MHz $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$ $\vdots Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		_ _	60    4,8 260  3,1	_ _	$\Omega \parallel pF$ $\Omega \parallel pF$
Temperature coefficie	nt of frequency	$TC_{f}$	_	- 86	_	ppm/K



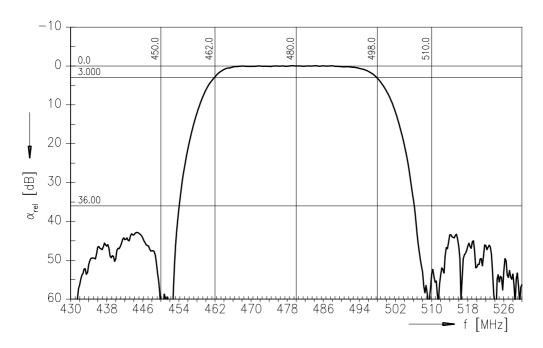
B 686

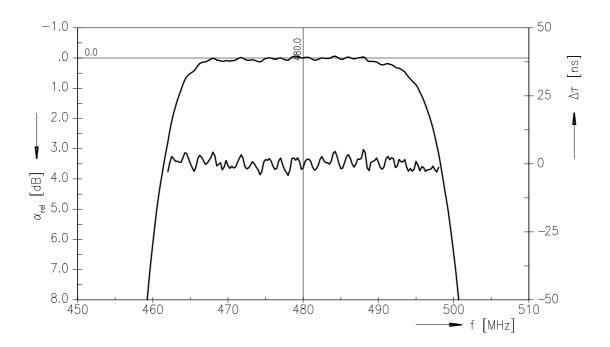
**Satellite Receiver Filter** 

480,00 MHz

**Data Sheet** 

# Frequency response







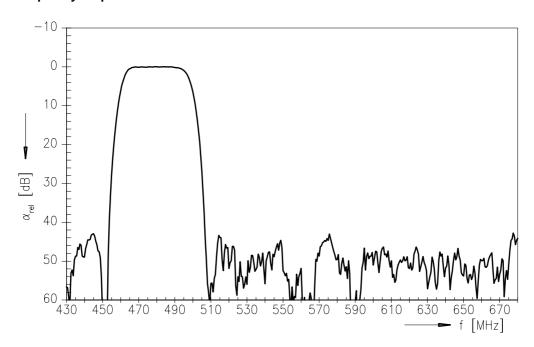
B 686

**Satellite Receiver Filter** 

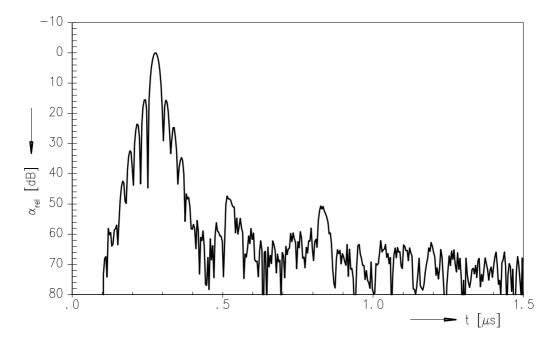
480,00 MHz

**Data Sheet** 

# Frequency response



# Time domain response





B 686

**Satellite Receiver Filter** 

480,00 MHz

**Data Sheet** 

#### Published by EPCOS AG Surface Acoustic Wave Components Division, OFW E UE P.O. Box 80 17 09, D-81617 München

© EPCOS AG 1999. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.