



Siemens Matsushita Components

SAW Components Bandpass Filter

B 519
70,00 MHz

Data Sheet

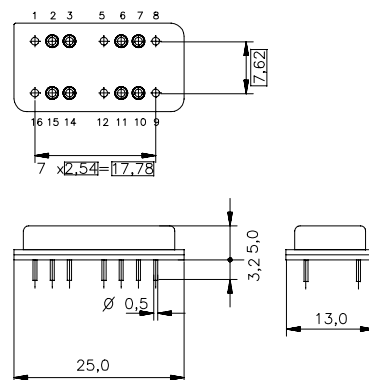
Metal package **DIP 16**

Features

- High performance IF bandpass filter
- Constant group delay
- Hermetically sealed metal package

Terminals

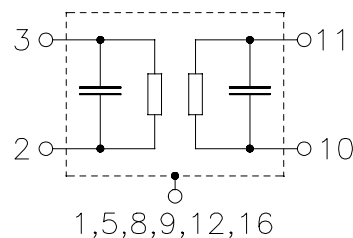
- Gold plated NiFeCo alloy



Dimensions in mm, approx. weight 4,2 g

Pin configuration

2	Input - ground
3	Input
10	Output - ground
11	Output
1, 5, 8, 9, 12, 16	Case - ground
6, 7, 14, 15	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B519	B39700-B519-E110	C61157-A7-A11	F61064-V8013-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	15	dBm	source impedance 50 Ω



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Characteristics

Operating temperature: $T = 25\text{ }^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50\text{ }\Omega$
Terminating load impedance: $Z_L = 50\text{ }\Omega$
Group delay aperture: 500 kHz

		min.	typ.	max.	
Center frequency (center between 6 dB points)	f_C	69,85	70,00	70,15	MHz
Insertion attenuation at f_C	α_C	—	28,0	30,0	dB
Amplitude ripple (p-p) 65,0 ... 75,0 MHz	$\Delta\alpha$	—	0,6	0,8	dB
Pass band tilt		—	0,04	—	dB/MHz
Pass bandwidth					
$\alpha_{\text{rel}} \leq 1\text{ dB}$	$B_{1\text{dB}}$	10,0	10,5	—	MHz
$\alpha_{\text{rel}} \leq 3\text{ dB}$	$B_{3\text{dB}}$	—	11,3	12,0	MHz
$\alpha_{\text{rel}} \leq 40\text{ dB}$	$B_{40\text{dB}}$	—	14,0	14,5	MHz
Relative attenuation (relative to α_C)	α_{rel}				
10,0 ... 55,8 MHz		45,0	50,0	—	dB
55,8 ... 57,5 MHz		43,0	46,0	—	dB
57,5 ... 62,5 MHz		45,0	50,0	—	dB
77,5 ... 135,0 MHz		45,0	48,0	—	dB
Reflected wave signal suppression 0,9 μs ... 4,1 μs after main pulse		50,0	55,0	—	dB
Group delay at f_C	τ_C	—	1,9	—	μs
Group delay ripple (p-p) 64,5 ... 75,5 MHz	$\Delta\tau$	—	16,0	20,0	ns
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K



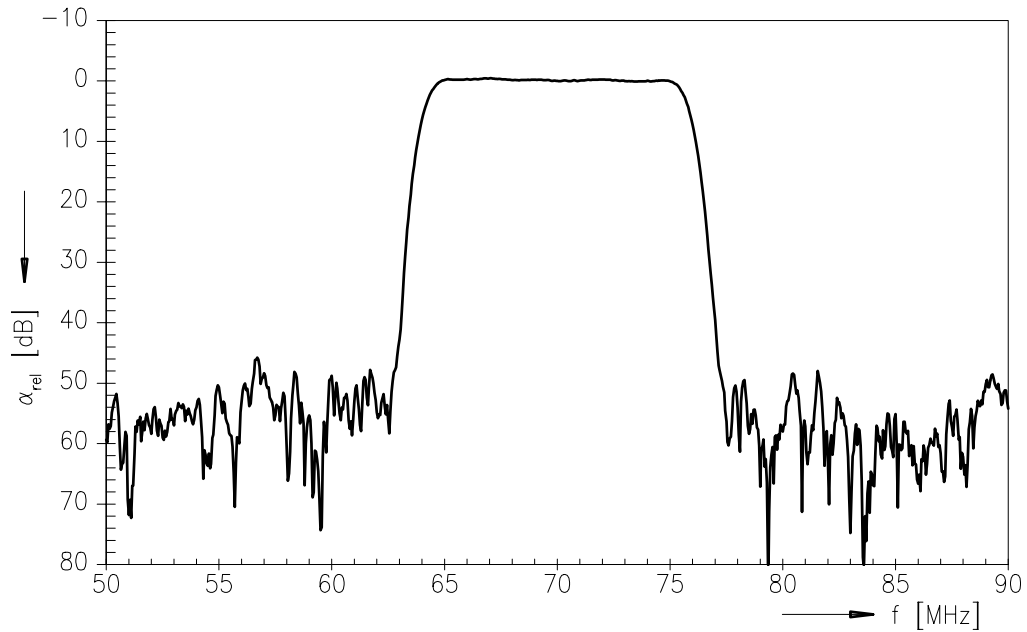
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Normalized frequency response



Normalized frequency response

