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RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW Duplexer

LTE Band 17

Series/type:	B8628
Ordering code:	B39741B8628P810
Date:	May 19, 2015
Version:	2.2

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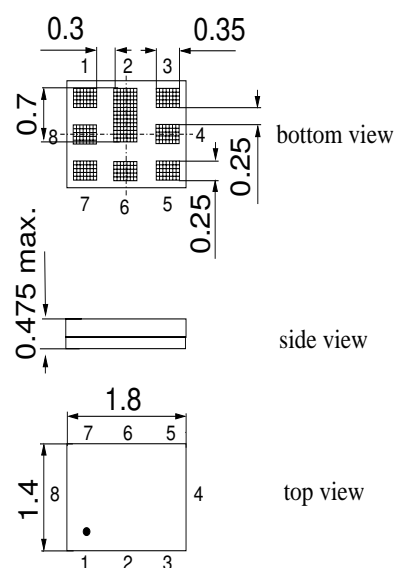
Data sheet


Application

- Low-loss SAW duplexer for mobile telephone LTE Band 17 systems
- High attenuation
- Low amplitude ripple
- Usable passband 12 MHz
- Single-ended duplexer
- Very small size and low height


Features

- Package size 1.8 * 1.4 mm²
- Package height: maximum 0.475 mm
- RoHS compatible
- Package for **Surface Mount Technology (SMT)**
- Ni, Au-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- **Moisture Sensitivity Level 3**


Pin configuration

- 3 Tx input
- 1 Rx output
- 6 Antenna
- 2, 4, 5, 7, 8 To be grounded

Data sheet


Characteristics

Temperature range for specification:	T = -20 °C to +90 °C
TX terminating impedance:	Z _{Tx} = 50 Ω
ANT terminating impedance:	Z _{Ant} = 50 Ω 15 nH
RX terminating impedance:	Z _{Rx} = 50Ω

Characteristics Tx-Antenna		B8628			
		min.	typ. @ 25 °C	max.	
Center frequency	f _c	-	710	-	MHz
Maximum insertion attenuation	α				
	704.34 ... 715.66 MHz	-	1.6	2.3	dB
Amplitude ripple (p-p)	Δα				
	704.34 ... 715.66 MHz	-	0.5	1.1	dB
Input VSWR (Tx port)					
	704.0 ... 716.0 MHz	-	1.4	2.0	
Output VSWR (Ant Port)					
	704.0 ... 716.0 MHz	-	1.5	2.0	

Data sheet


Characteristics

Temperature range for specification:	T = -20 °C to +90 °C
TX terminating impedance:	Z _{Tx} = 50 Ω
ANT terminating impedance:	Z _{Ant} = 50 Ω 15 nH
RX terminating impedance:	Z _{Rx} = 50 Ω

				B8628			
Characteristics Tx-Antenna				min.	typ. @ 25 °C	max.	
Absolute attenuation			α				
	10.0 ...	692.0	MHz	35	44	-	dB
	692.0 ...	698.0	MHz	2	8	-	dB
	722.0 ...	728.0	MHz	7 ¹⁾	15	-	dB
	729.0 ...	734.0	MHz	18	34	-	dB
	734.0 ...	746.0	MHz	45	62	-	dB
	746.0 ...	768.0	MHz	35	46	-	dB
	768.0 ...	805.0	MHz	30	43	-	dB
	869.0 ...	894.0	MHz	30	43	-	dB
	1408.0 ...	1432.0	MHz	35	52	-	dB
	1559.0 ...	1607.0	MHz	50	56	-	dB
	1805.0 ...	1880.0	MHz	35	51	-	dB
	1930.0 ...	1990.0	MHz	45	49	-	dB
	2110.0 ...	2155.0	MHz	42	46	-	dB
	2155.0 ...	2170.0	MHz	42	46	-	dB
	2400.0 ...	2497.0	MHz	35	44	-	dB
	2816.0 ...	2864.0	MHz	35	41	-	dB
	4900.0 ...	5850.0	MHz	10	16	-	dB

1) Absolute mean attenuation: Integrated value of attenuation (linear scale) over specified band

Data sheet


Characteristics

Temperature range for specification:	T = -20 °C to +90 °C
TX terminating impedance:	Z _{TX} = 50 Ω
ANT terminating impedance:	Z _{Ant} = 50 Ω 15nH
RX terminating impedance:	Z _{RX} = 50Ω

Characteristics Antenna-Rx		B8628			
		min.	typ. @ 25 °C	max.	
Center frequency	f _c	-	740	-	MHz
Maximum insertion attenuation	α				
734.34 ... 745.66 MHz		-	1.8	2.3	dB
Amplitude ripple (p-p)	Δα				
734.34 ... 745.66 MHz		-	0.6	1.1	dB
Input VSWR (Ant port)					
734.0 ... 746.0 MHz		-	1.5	2.0	
Output VSWR (Rx Port)					
734.0 ... 746.0 MHz		-	1.5	2.0	
Absolute attenuation	α				
10.0 ... 704.0 MHz		40	57	-	dB
704.0 ... 716.0 MHz		50	65	-	dB
716.0 ... 724.0 MHz		32	45	-	dB
724.0 ... 726.5 MHz		18	30	-	dB
726.5 ... 728.0 MHz		10	20	-	dB
777.0 ... 793.0 MHz		35	40	-	dB
793.0 ... 805.0 MHz		35	42	-	dB
805.0 ... 4000.0 MHz		40	45	-	dB
4000.0 ... 6000.0 MHz		27	32	-	dB

Data sheet

Characteristics

Temperature range for specification:	T = -20 °C to +90 °C
TX terminating impedance:	Z _{Tx} = 50 Ω
ANT terminating impedance:	Z _{Ant} = 50 Ω 15nH
RX terminating impedance:	Z _{Rx} = 50 Ω

Characteristics Tx-Rx				B8628			
				min.	typ. @ 25 °C	max.	
Isolation	α	704.0 ... 716.0 MHz	60	65	-	dB	
		734.0 ... 746.0 MHz	58	63	-	dB	
		1408.0 ... 1432.0 MHz	30	58	-	dB	
		2112.0 ... 2148.0 MHz	30	52	-	dB	
		2816.0 ... 2864.0 MHz	30	50	-	dB	

Maximum Ratings

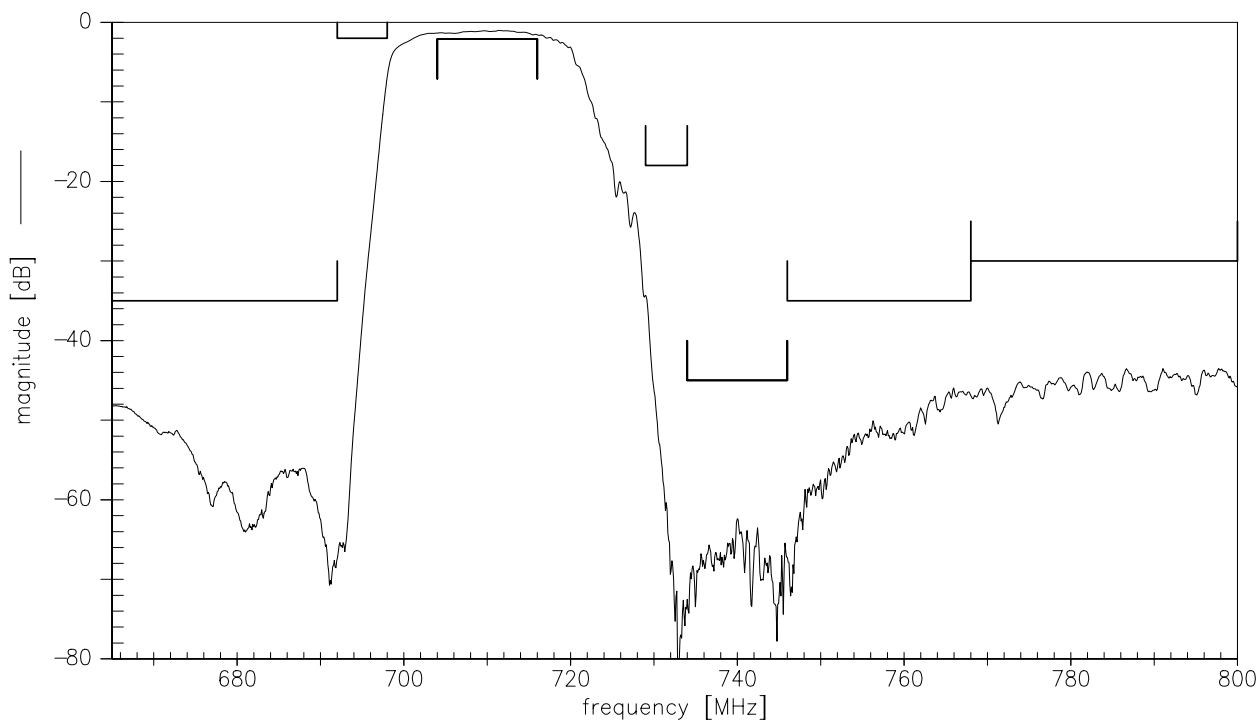
Storage temperature range	T _{stg}	-40/+85	°C	machine model, 1 pulse
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	100 ¹⁾	V	
Input power at Tx Port				} continuous wave 55 °C, 5000h
704.0 ...716.0 MHz	P _{in}	29	dBm	
elsewhere	P _{in}	10	dBm	

¹⁾ According to JESD22-A115A (machine model), 1 negative and 1 positive pulses.

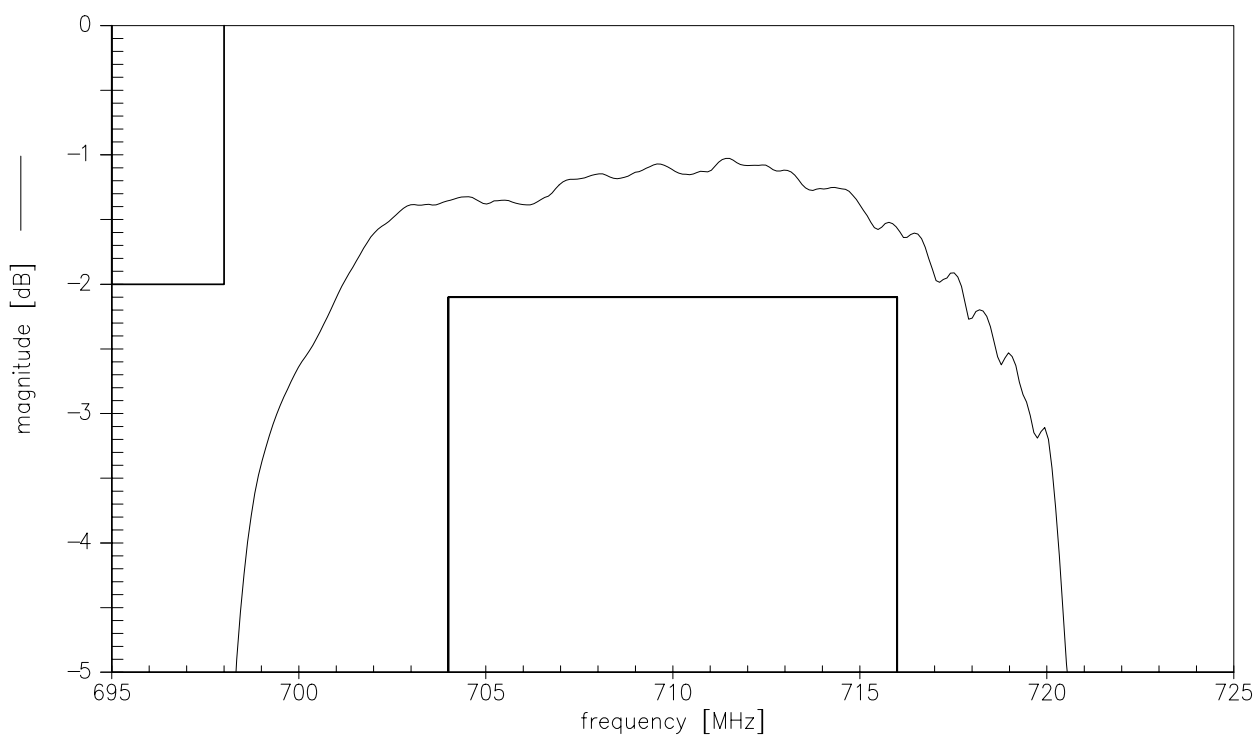
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Frequency Response TX-ANT Narrow Band



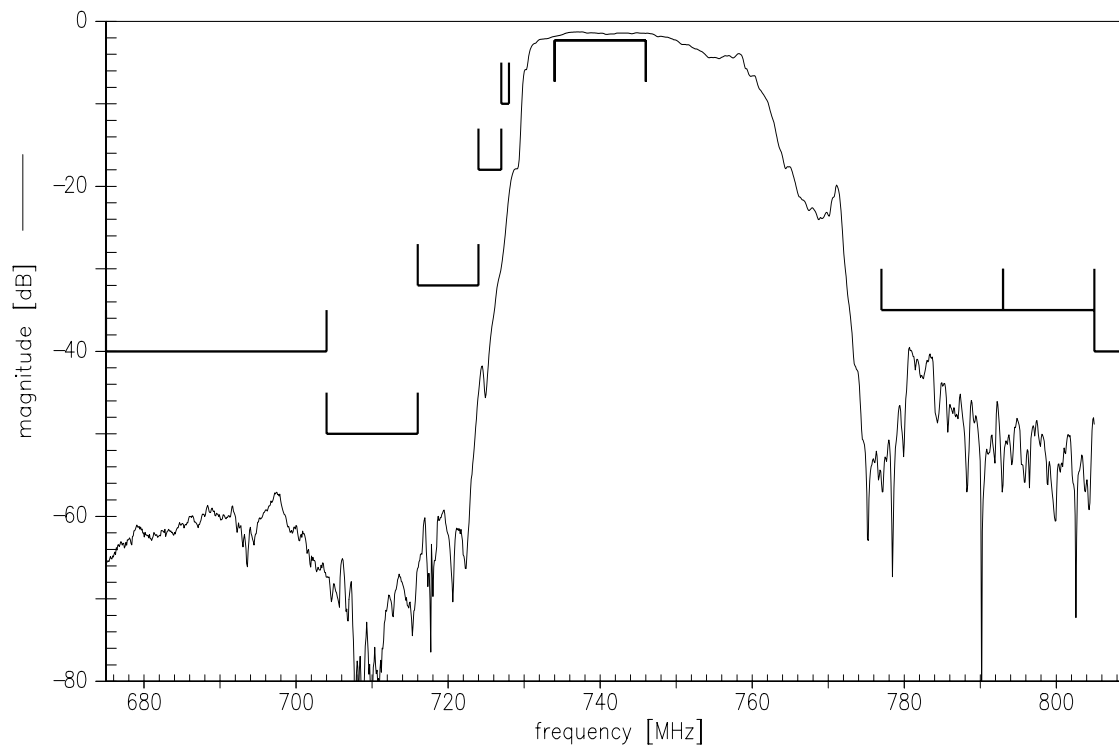
Frequency Response TX-ANT Bandwidth



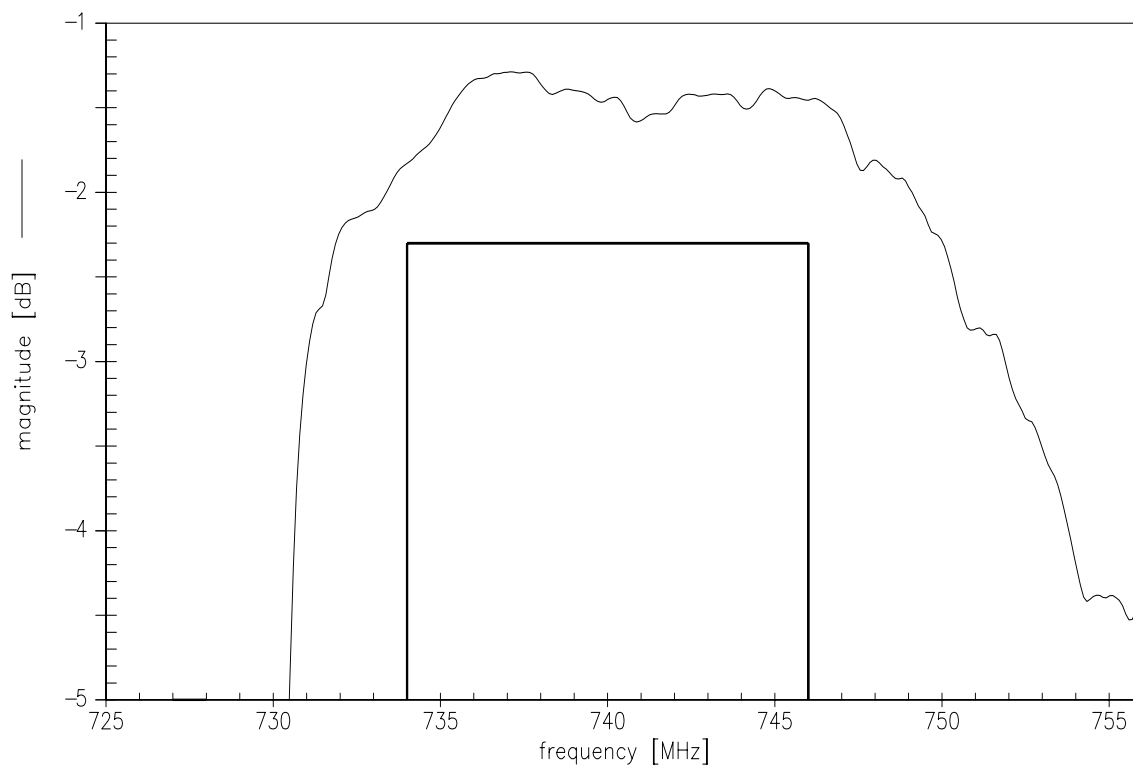
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Frequency Response ANT-RX Narrow Band



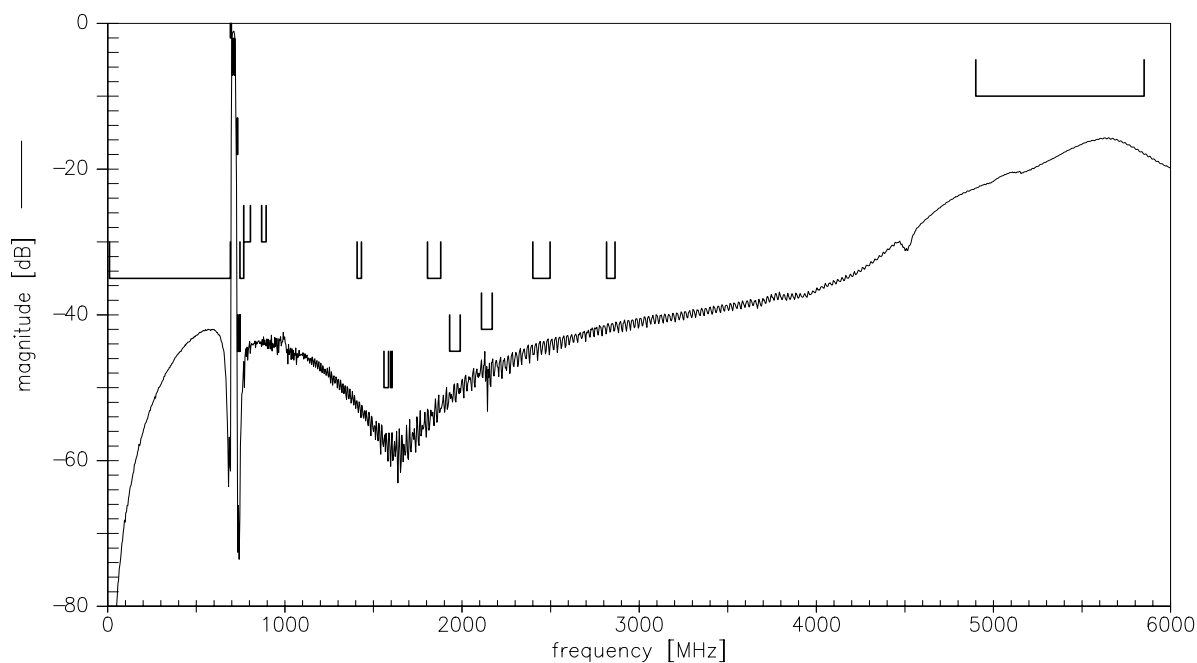
Frequency Response ANT-RX Bandwidth



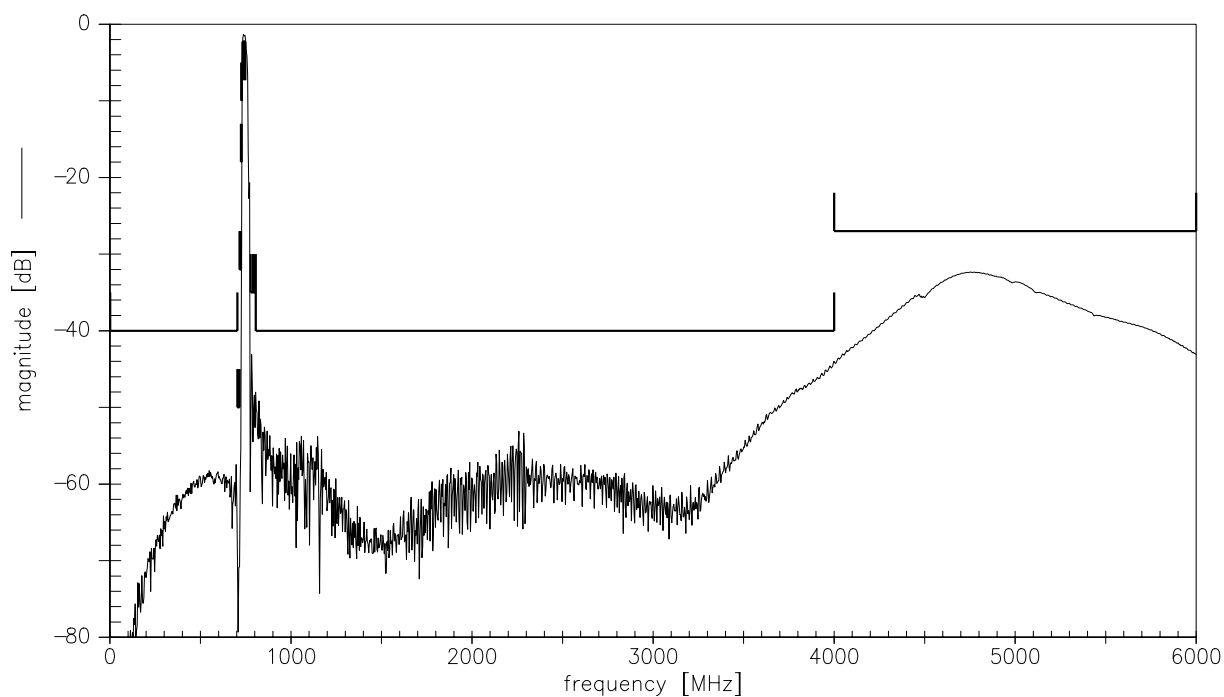
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Frequency Response ANT-TX Wide Band



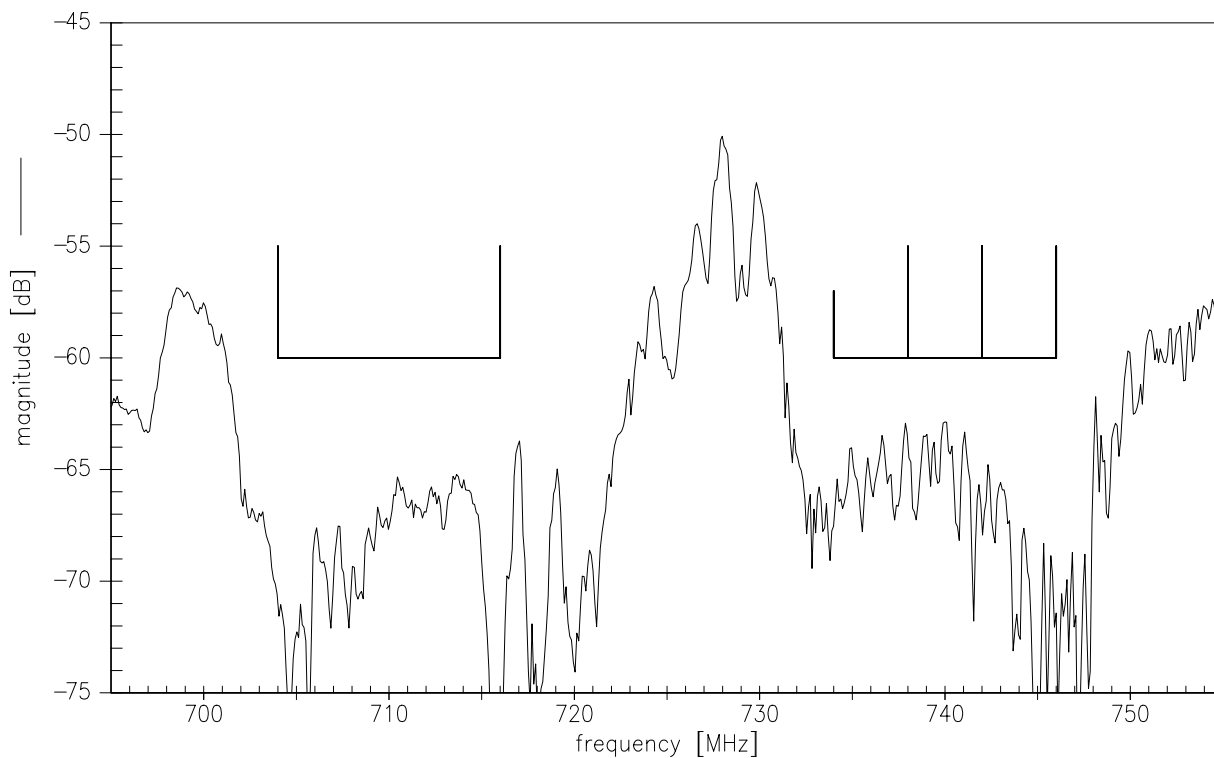
Frequency Response ANT-RX Wide Band



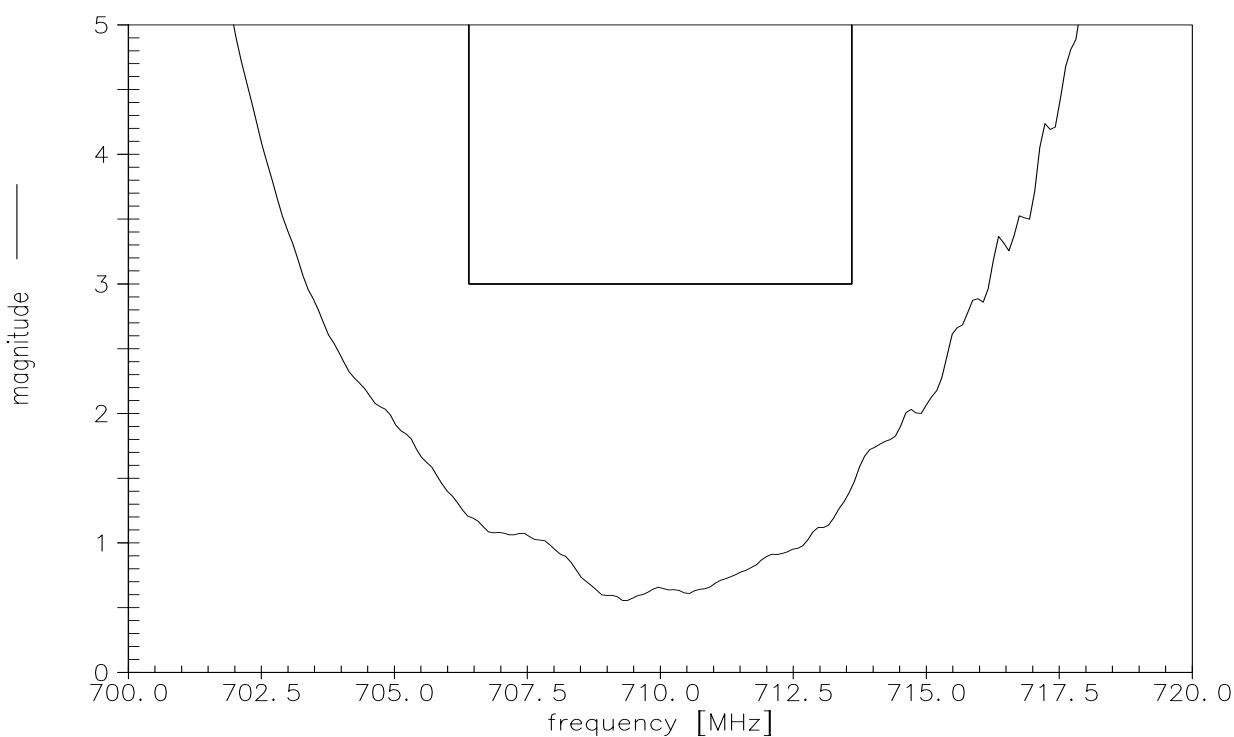
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Frequency Response TX-RX : isolation



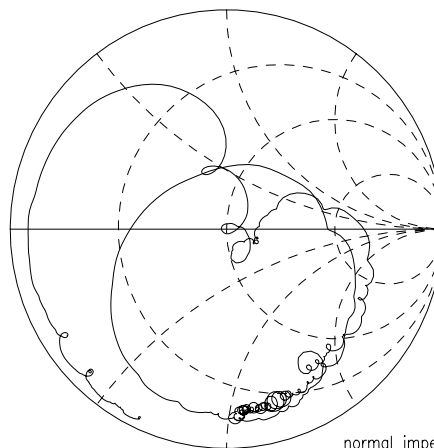
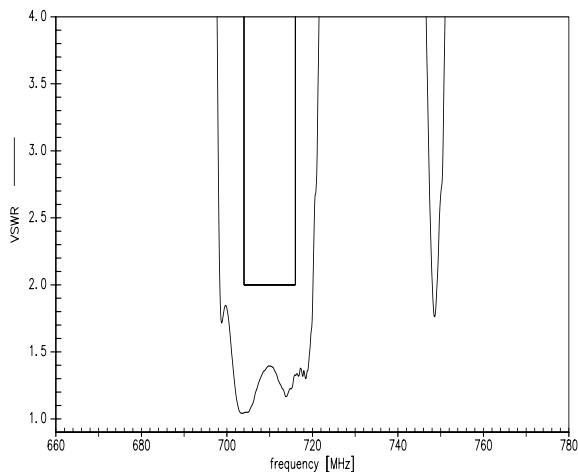
Frequency Response TX : Error Vector Magnitude



Data sheet

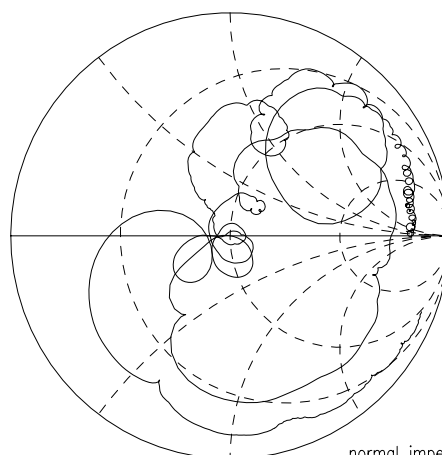
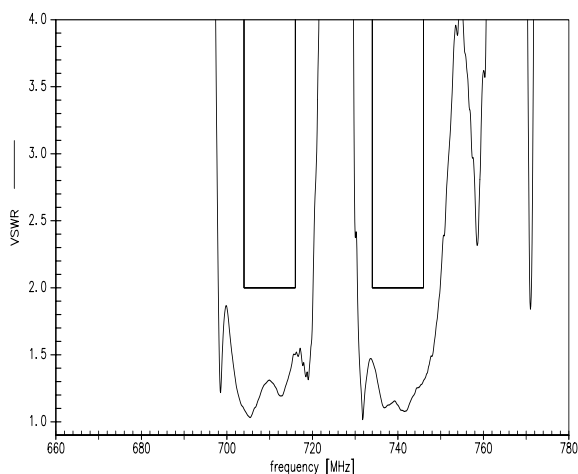


S11 VSWR (TX)



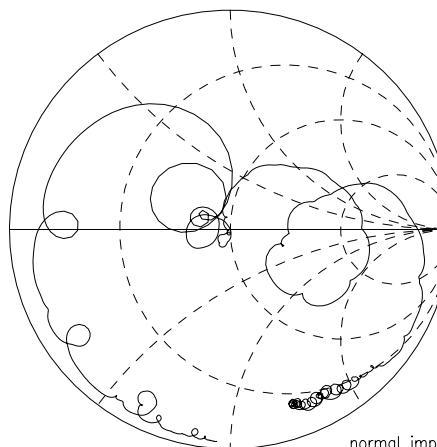
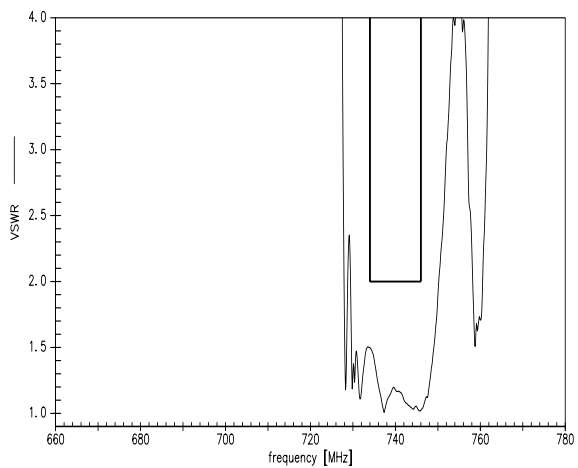
normal impedance: 50.00 Ω

S22 VSWR (ANT)



normal impedance: 50.00 Ω

S33 VSWR (RX)



normal impedance: 50.00 Ω

Data sheet



References

Type	B8628
Ordering code	B39741B8628P810
Marking and package	C61157-A8-A93
Packaging	F61074-V8259-Z000
Date codes	L_1126
S-parameters	B8628_NB.s4p B8628_WB.s4p
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8 th , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
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