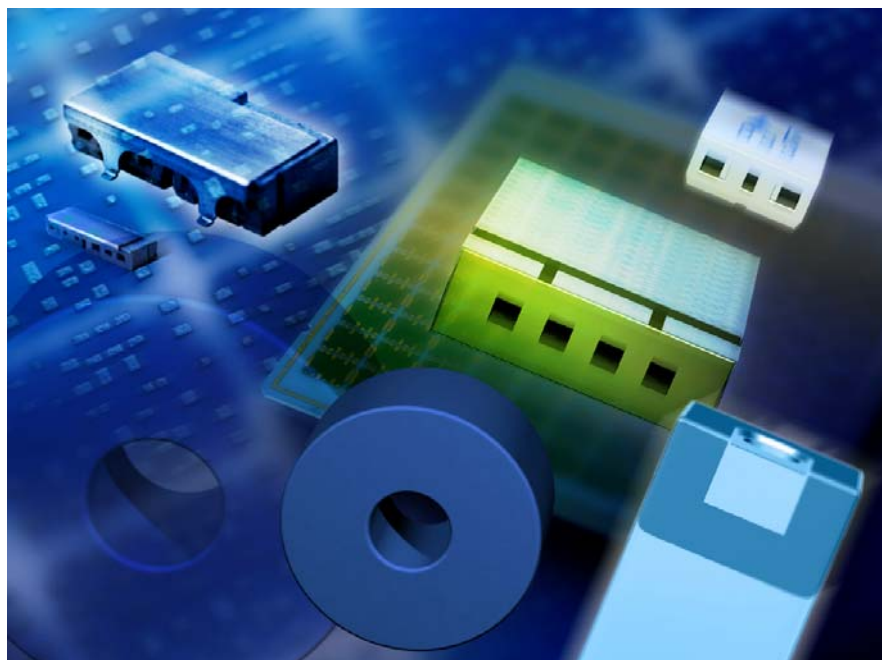




Features

- SMD duplexer consisting of coupled resonators with stepped impedances
- $\text{Ba}(\text{NdSm})\text{TiO}_3$ ($\epsilon_r = 82$ / $TC_f = 0 \pm 10$ ppm/K)
- Excellent reflow solderability

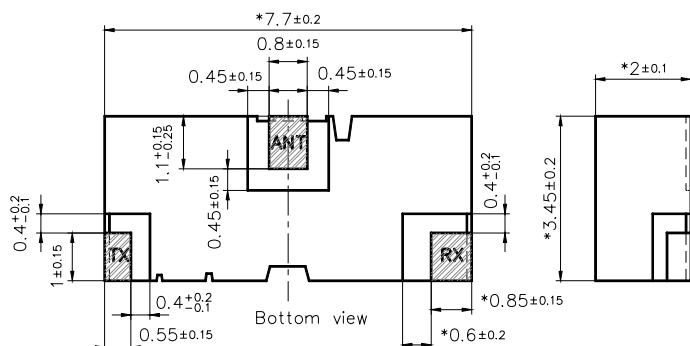
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| Page 4 | <ul style="list-style-type: none">● Maximum ratings● Typical passband characteristic |
| Page 5 | <ul style="list-style-type: none">● Processing information● Soldering requirements● Delivery mode |

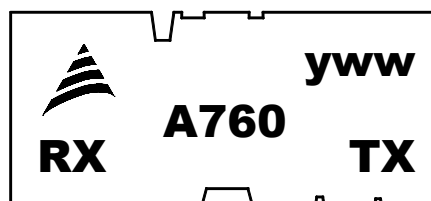
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Preliminary Data Sheet

Component drawing



marking

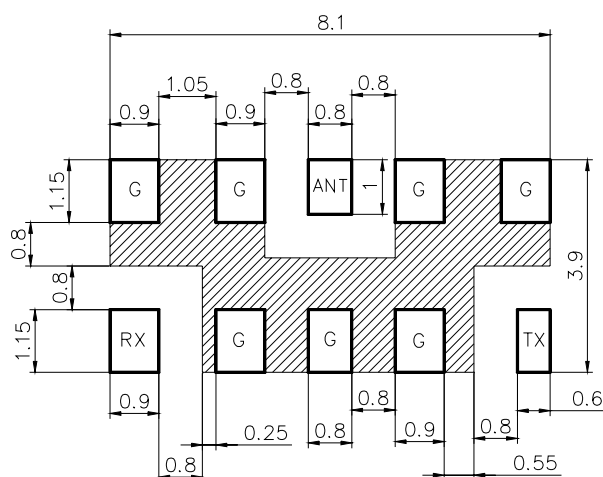


y= calendar year
w= calendar week
e.g.: 427= calendar year 2004,
calendar week 27

*depending in final pressing tool

View from below onto the solder terminals and view from beside

Recommended footprint



-  TX, RX, ANT, G solder pads
-  ground area below solder resist with vias to second ground layer
-  I/O connected to lines with an impedance of 50 Ohm
- Standard condition** FR4 material
permittivity : 4.4
preferred thickness : 0.3
Vias: Ø0.3mm / mm²
For other thickness correlation might be necessary

- will be fixed acc. to final pressing tool

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Preliminary Data Sheet
Characteristics Receiver

		min.	typ.	max.	
Center frequency	f_C	-	2140	-	MHz
Insertion loss	α_{IL}		1.3	1.6	dB
Passband	B	60			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$			0.9	dB
Standing wave ratio	SWR			1.9	
Impedance	Z		50		Ω
Power	P_{avg}			0.8	W
Attenuation	α				
	at DC to 1790 MHz	35 *			dB
	at 1790 to 1920 MHz	30			dB
	at 1920 to 1980 MHz	50			dB
	at 1980 to 2025 MHz	20			dB
	at 4030 to 4150 MHz	23 *			dB
	at 5950 to 6000 MHz	33 *			dB

*depending on final pressing tool and final layout

Characteristics Transmitter

		min.	typ.	max.	
Center frequency	f_C	-	1950	-	MHz
Insertion loss	α_{IL}		1.1	1.4	dB
Passband	B	60			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$			0.6	dB
Standing wave ratio	SWR			1.8	
Impedance	Z		50		Ω
Power	P_{max}			1.0	W
Attenuation	α				
	at DC to 1000 MHz	40			dB
	at 2110 to 2170 MHz	42			dB
	at 2400 to 2550 MHz	40			dB
	at 3840 to 3960 MHz	33 *			dB
	at 5760 to 5940 MHz	23 *			dB

*depending on final pressing tool and final layout

Isolation Tx – Rx

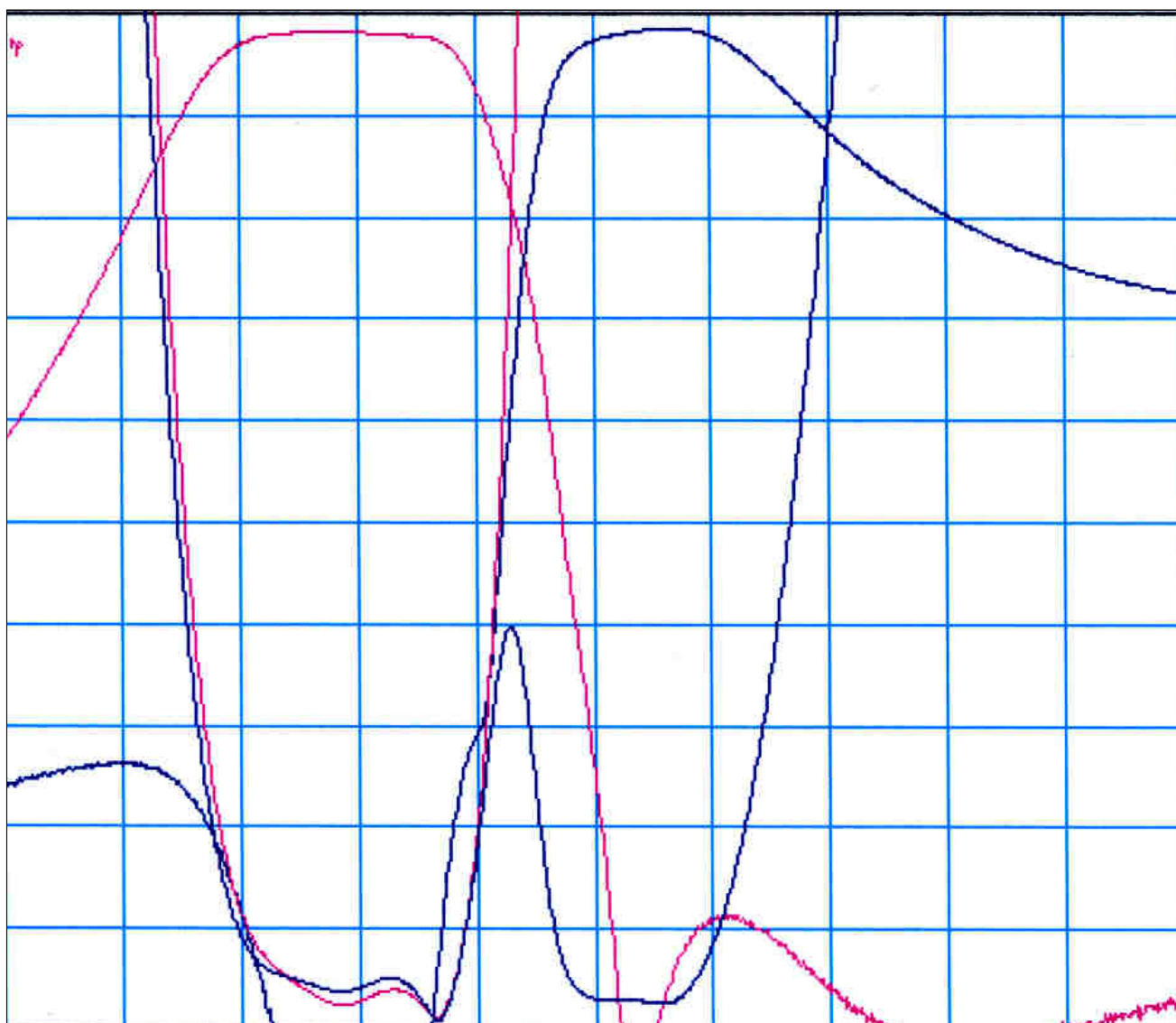
		min.	typ.	max.	
Attenuation	α				
	at 1920 to 1980 MHz	50			dB
	at 2110 to 2170 MHz	45			dB

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Maximum ratings

IEC climatic category (IEC 68-1)	- 40/+ 90/56	
Operating temperature	T_{op} -40 / +85	°C

Typical passband characteristic



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