

Reference level for the relative attenuation a_{rel} of the DW9274 is the insertion loss. The insertion loss a_e is defined as the insertion loss at the nominal frequency f_N . The centre frequency f_c is the arithmetic mean value of the upper and lower frequencies at the 3 dB filter attenuation level relative to the insertion loss a_e . The temperature coefficient of frequency T_{cf} is valid both for the reference frequency f_c and the frequency response of the filter at the operating temperature. The frequency shift of the filter at the operating temperature not included in the production tolerance scheme.

FEATURES

- 92.025MHz Centre Frequency (fo)
- Insertion Loss 3dB (Typ)
- 3dB Bandwidth 30kHz (Min)
- Quartz Temperature Stability

ABSOLUTE MAXIMUM RATINGS

DC Voltage VDV	0V
Maximum Input Level	0dBm

ORDERING INFORMATION

Order as: **DW9274**

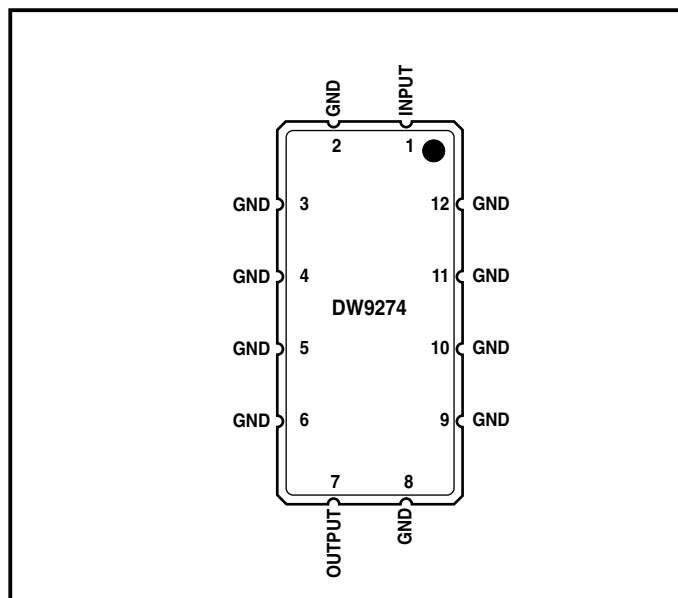


Fig. Pin connections

ELECTRICAL SPECIFICATION @23°C

Parameter	Symbol	Typical Value	Max. Limit/ Toerance	Units
Insertion loss (Reference level)		3.0	4.0 max	dB
Nominal frequency (at ambient temperature)		-	92.025	MHz
Centre frequency (at ambient temperature)	f_c	92.025	-	MHz
Pass band		-	$f_c \pm 0.015$	MHz
Pass band ripple		0.5	1.0 max	dB
Bandwidth	BW	-	3	dB
3dB		63	30 min	kHz
Relative attenuation	a_{rel}			
$f_c \pm 50\text{ kHz} \dots f_c \pm 100\text{ kHz}$		-	5.0	dB
$f_c + 100\text{ kHz} \dots f_c + 200\text{ kHz}$		-	35.0	dB
$f_c + 200\text{ kHz} \dots f_c + 500\text{ kHz}$		-	25.0	dB
$f_c + 500\text{ kHz} \dots f_c + 1,0\text{ MHz}$		-	40.0	dB
$f_c - 100\text{ kHz} \dots f_c - 300\text{ kHz}$		-	35.0	dB
$f_c - 300\text{ kHz} \dots f_c - 900\text{ kHz}$		-	60.0	dB
$f_c - 900\text{ kHz} \dots f_c - 920\text{ kHz}$		-	70.0	dB
$f_c - 920\text{ kHz} \dots f_c - 1,0\text{ MHz}$		-	60.0	dB
Group delay ripple (within PB)		-	4 max	μs
Input power level		-	0	dBm
Operating temperature range		-	+65	°C
Storage temperature range		-	+85	°C
Temperature coefficient	T_{cf}	-	-	

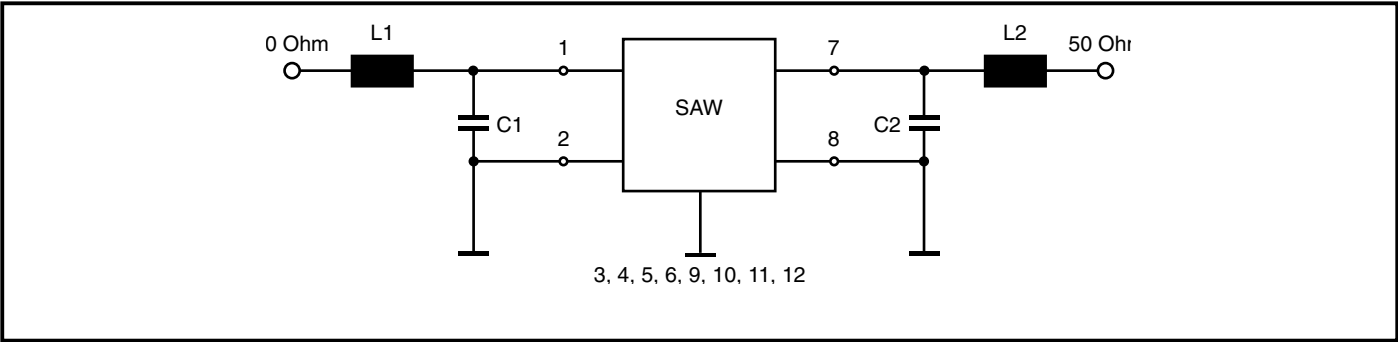
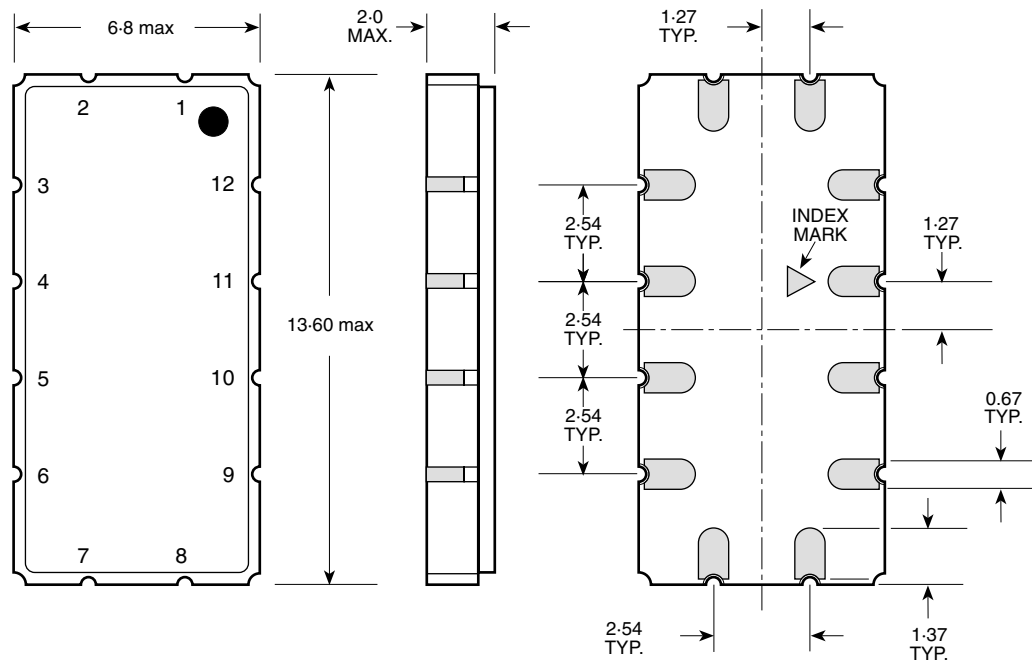


Figure 2: 50Ω Test Circuit

PACKAGE DETAILS

Dimensions are shown thus: mm (in). DO NOT SCALE. For further package information, please contact Customer Services.



NOTES

1. Controlling dimensions are millimetres.
2. This package outline diagram is for guidance only. Please contact Dynex Semiconductor Customer Services for further information.

Figure 3 Package outline details



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T:- Target information is the most tentative form of information and represents a very preliminary specification. No actual design work on the product has been started.

P:- Preliminary information represents the product as it is understood but details may change as the product is in design and development.

A:- Advance information denotes the product design is complete and final characterisation for volume production is well in hand.

F:- The product parameters are fixed and the product is available to datasheet specification.

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