

Seltech Flex circuit extension for Knowles Flex circuits for testing



To facilitate testing Knowles Microphones further away from Knowles Muskie Development kit, Seltech develops an extension for Knowles Mics On flex products. This circuit board works with all Knowles flex circuits for testing (KAS-700-01XX) and Muskie Dev Kit (KAS-33100-0004).

MICROPHONE TEST FLEXES, AND KFE-15 EXTENSION

Knowles utilizes flexes when testing microphones with a common size and interface such that flexes from any microphone can be used in various test fixtures. The only difference between the test boards of different microphones is the pinout and pad configuration.

Seltech flex circuit extension benefits to this common interface to move away Knowles flexes from the Muskie dev kit. This aims to avoid any acoustic interference of the dev kit and/or to test the microphones closer to the real condition.

DESIGN DETAILS

The flex circuit mates with an 8-position 0.5mm Kyocera connector (MPN 046288008000846+, DigiKey PN 478-5454-1-ND). This is the connector on the KFE-15 flex extension.

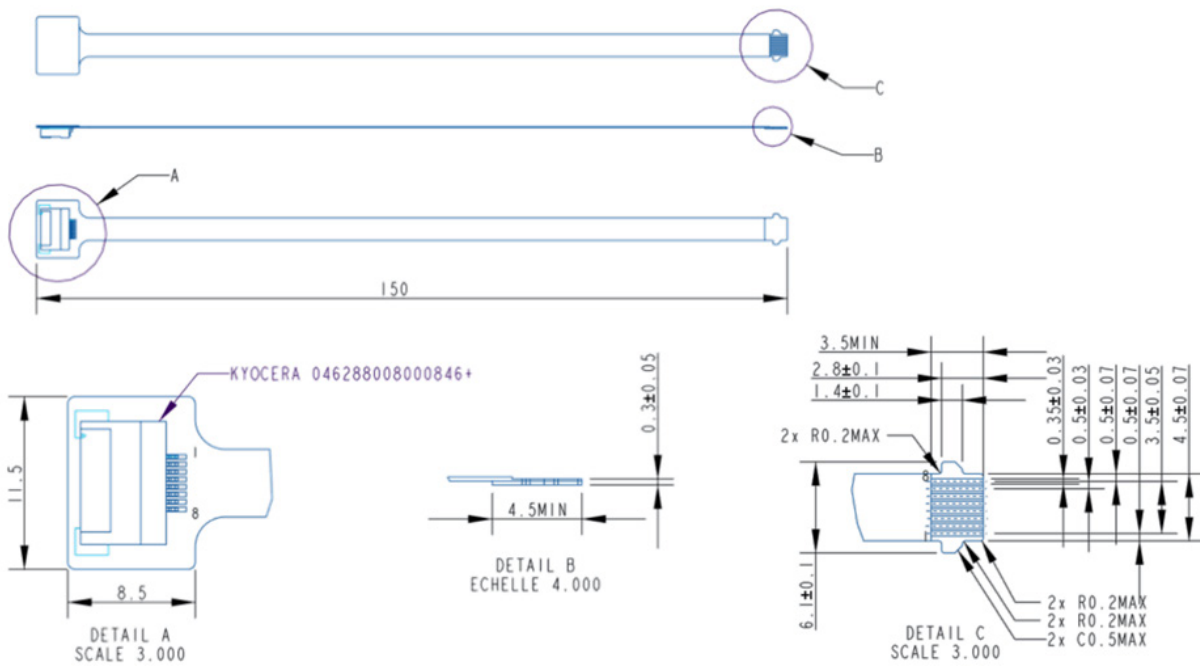


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SELTECH is an international solution provider with deep expertise in acoustics and sensors. We offer tailored innovative solutions to our customers' challenges, from design to production.

Flex circuit Dimensions

Unit: mm



FLEX CIRCUIT PINOUTS

The table below shows the pinouts for the flex connector. The same connector can be used for all microphone flexes, regardless of port orientation or electrical interface.

Connector pin #	Flex contact #	Signal	Knowles Mic on Flex type			
			Analog Flex	Differential Flex	Digital Flex	IzS Flex
1	1	NC	-	-	-	-
2	2	Ground	G	G	G	G
3	3	Power	P	P	P	P
4	4	Data	O	O+	D	D
5	5	Bit Clock	-	O-	K	K
6	6	Select	-	-	S	S
7	7	Word Strobe	G	G	G	WS
8	8	NC	-	-	-	-

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