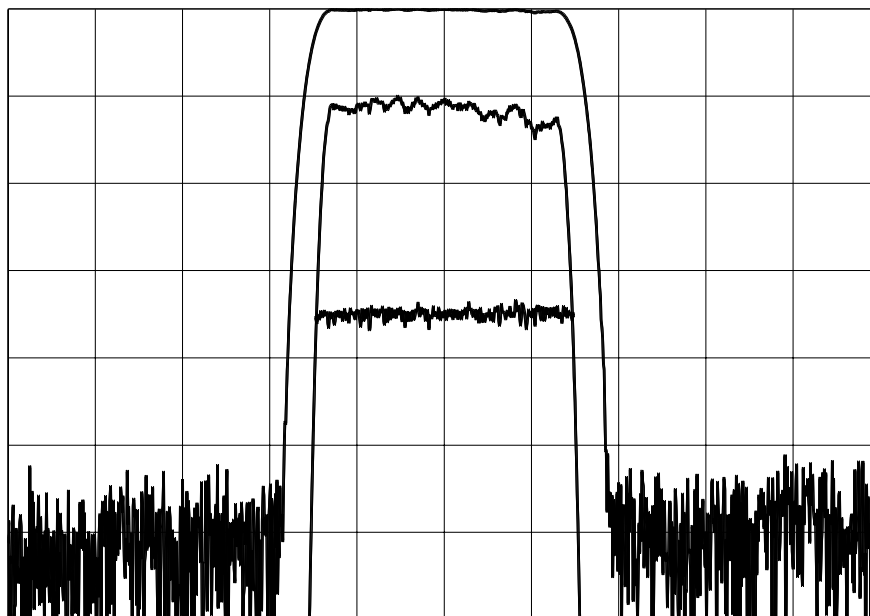


TYPICAL PERFORMANCE



Horizontal: 15 MHz/div Vertical (from top):
 Magnitude 10 dB/div
 Magnitude 1 dB/div
 Group Delay 50 ns/div

SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
Center Frequency (Fc) ¹	139.75	140.0	140.25	MHz
Insertion Loss at Fc		23.5	25	dB
1 dB Bandwidth	41.2	41.8		MHz
3 dB Bandwidth	44	44.3		MHz
40 dB Bandwidth		54.2	55	MHz
Passband Ripple		0.5	0.7	dB p-p
Phase Ripple		4.0	6	deg p-p
Group Delay Ripple		20.0	30	ns p-p
Absolute Delay		1.0		us
Ultimate Rejection	50	55		dB
Temperature Coefficient of Frequency		-80		ppm/° C
Substrate Material	128 Lithium Niobate			
Source and Load Impedance	50			Ω
Ambient Temperature		25		° C

Notes:

1: Mean Value of 3 dB band edges.

The drawing shows three views of the connector:

- Top View:** A rectangular footprint with overall dimensions of 22.1 ± 0.5 mm in width and 12.7 ± 0.5 mm in height. It features a smaller rectangular inner outline.
- Side View:** Shows the profile of the connector. The total height is 5.33 (MAX) mm. The mounting tab height is 4.57 (MIN) mm. The base has six mounting pins, each with a diameter of 0.46 ± 0.05 mm.
- Front View:** Shows the 10-pin configuration. Pins 1, 2, and 7 are on the top edge; pins 14, 9, and 8 are on the bottom edge. The distance between the centerlines of pins 1 and 7 is 15.24 mm. The distance between the centerlines of pins 9 and 8 is 2.54 mm. The vertical distance between the top and bottom pin rows is 7.62 mm.

Input: 14
Input Return: 1
Output: 8
Output Return: 7
Ground: 2, 9

1. Recommend use of 2% tolerance components.
2. Optimum values depend on board layout. Values intended as guide only.

**ISO 9001
Registered**