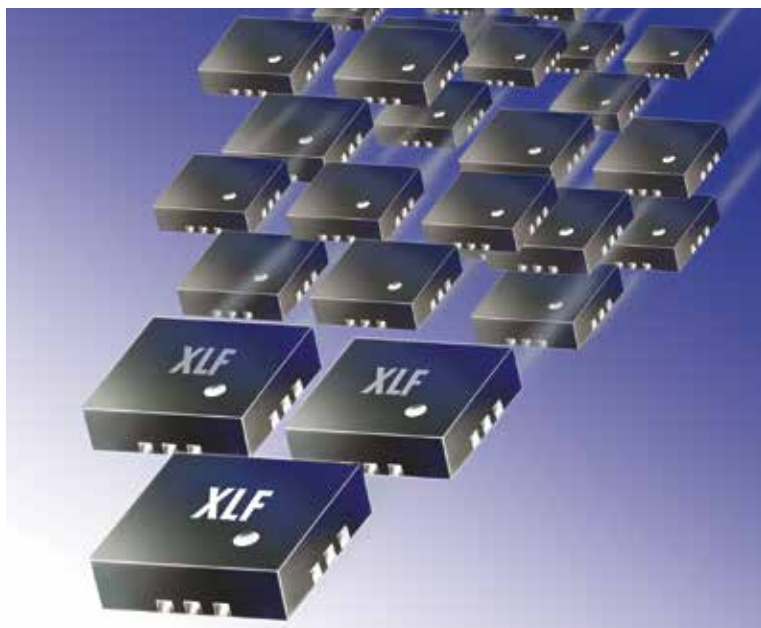


# REFLECTIONLESS FILTERS Designer's Kit K2-XFLTR+

MINI-CIRCUITS DESIGNER'S KITS

**SPEED UP**  
THE SOLUTION!



## DC to 18 GHz

### X-Series Reflectionless Filters

- Patented design eliminates in band spurs
- Pass band cut-off up to 18 GHz
- Stop band up to 34 GHz
- Excellent repeatability through IPD\* process

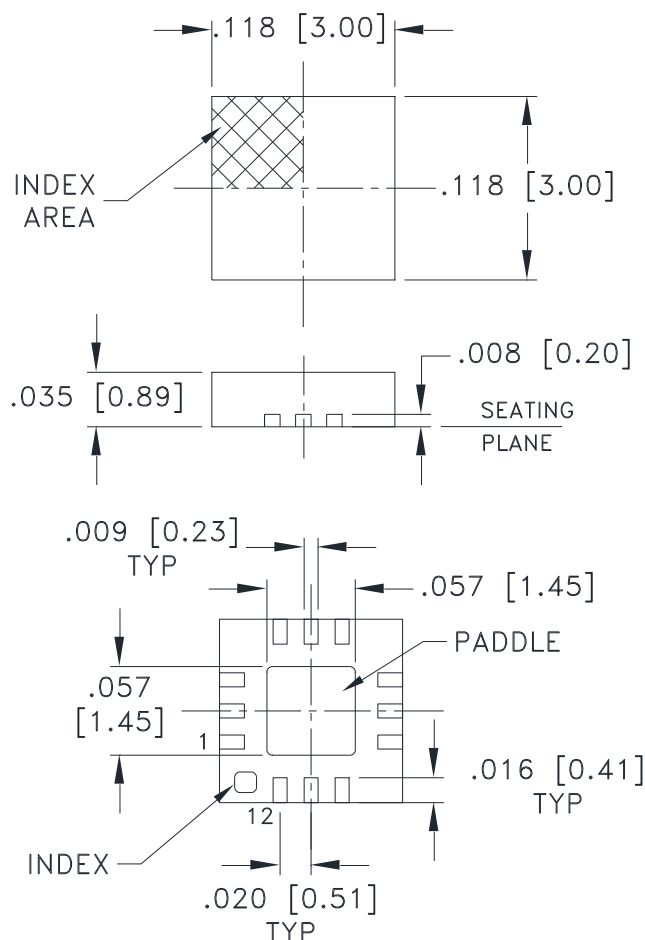
\*IPD – Integrated Passive Device is a GaAs semiconductor process

**Kit K2-XFLTR+** LOW PASS FILTERS (10 models, 4 of each, 40 total)

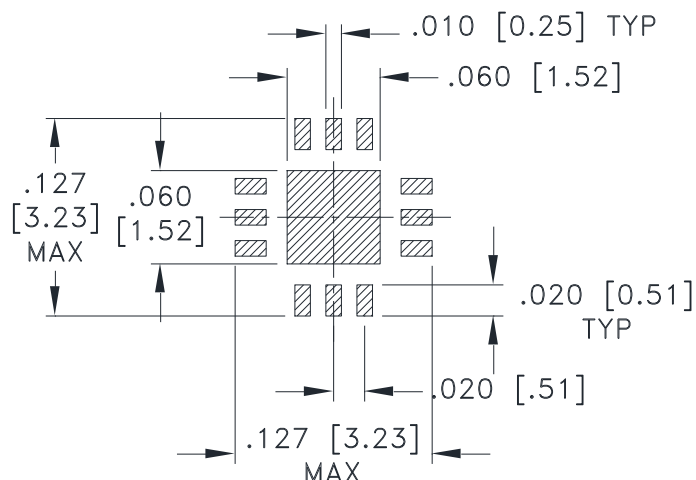
Model Number	Pass-band (MHz)		Stop-band (MHz)	VSWR (:1)	
	I.L.=1 dB typ.	I.L.=3 dB typ.	I.L.=14 dB typ.	pass-band	stop-band
XLF-732+	0-7300	9800	14300-34000	1.2	3.0
XLF-982+	0-9800	13100	19000-22000	1.2	3.4
XLF-63+	0-6000	8100	9600-17800	1.3	1.5
XLF-73+	0-7000	9900	11700-21300	1.3	2.2
XLF-762+	0-7600	11000	13100-20000	1.3	2.7
XLF-962+	0-9600	12400	14800-16000	1.2	2.4
XLF-14+	0-10000	13200	15800-17000	1.3	2.2
XLF-123+	0-12200	15000	18100-19000	1.3	2.5
XLF-133+	0-13100	15800	19500-20000	1.3	2.7
XLF-173+	0-17000	18000	23900-26000	1.2	2.7



### Outline Dimensions



### PCB Land Pattern



SUGGESTED LAYOUT,  
TOLERANCE TO BE WITHIN  $\pm 0.002$

**Weight: .02 Grams**

**Dimensions are in inches (mm). Tolerances: 2Pl.  $\pm .01$ ; 3 Pl.  $\pm .004$**

### Notes:

- Case material: Plastic.
- Termination finish:
  - For RoHS Case Styles: Tin-Silver alloy plate over Nickel barrier or Matte-Tin. All models, (+) suffix. See Data sheet.
  - For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



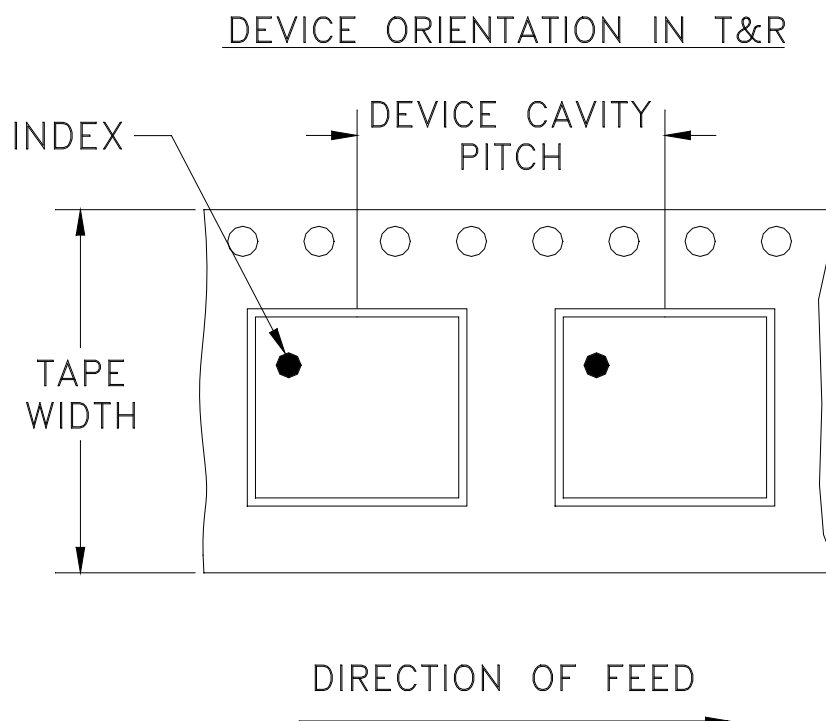
INTERNET <http://www.minicircuits.com>

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Mini-Circuits ISO 9001 & ISO 14001 Certified

# Tape & Reel Packaging TR-F66



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note	
8	4	7	Small quantity standard	20
				50
				100
				200
				500
		7	Standard	1000, 2000, 3000

Note: Please consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: [www.minicircuits.com/pages/pdfs/tape.pdf](http://www.minicircuits.com/pages/pdfs/tape.pdf)



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Mini-Circuits ISO 9001 & ISO 14001 Certified



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 105°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-65° to 150° C Ambient Environment	Individual Model Data Sheet
Autoclave	15 psig, 100% RH, 121°C, 96 hours	JESD22-A102-C, Condition C
Temperature Cycling	-65° to 150°C, 100 cycles	JESD22-A104
Temperature Humidity	85°C/ 85% RH, 168 hours	JESD22-113
Solder Reflow Heat	Sn-Pb Eutetic Process: 240°C peak Pb-Free Process: 260°C peak	J-STD-020, Table 4-1, 4-2 and 5-2; Figure 5-1
Moisture Sensitivity: Level 1	Bake at 125°C for 24 hours Soak at 85°C/85% RH for 168 hours, Reflow 3 cycles at 240°C peak (Non-RoHS) or 260°C (RoHS)	J-STD-020C
Solderability	10X magnification, 95% coverage	JESD22-B102, Method 1: Dip and Look Test
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215