

Pyroelectric and Multi-spectral Detectors

Customer furnished filters

Requirements for Customer Furnished Filters for use in InfraTec pyroelectric detectors:

- Filters already cut to size are preferred. The correct size and tolerances for each detector type can be found in the Table below. Standard thickness for all filters is **0.60 +0.1/-0.2 mm**. The thickness range of 0.70 ... 1.10mm can be used on request partly for our Standard and Extended Product Line.
- Filter Quantity Required
Production orders: Desired quantity +10%
Sample orders under 10pcs: 2-3 additional filters
- Preferred packaging for the filters:
Waffle tray or
Wafer tape (blue tape foil)
- Filters provided must be clean without any ink point or other marking. Cleanliness is required for good adhesion and sealing of the filters to the pyroelectric detector package.
- InfraTec offers the option to assemble customer furnished filters supplied uncut in wafer format for production orders. Wafers can be cut for an additional charge. InfraTec cannot assume liability for peeling or chipping of filter layers or other problems that might occur during cutting. Please note that filters coated on germanium or hard substrates such as sapphire and quartz have an increased risk of damage during the cutting process.

Please note:

InfraTec limits the incoming inspection of the customer furnished filters to a visual check and the identification of the Centre Wavelength (CWL) and the Half Power Bandwidth (HPBW). The filter manufacturer (not InfraTec) must certify specification requirements.

InfraTec has extensive experience in processing filters. InfraTec cannot assume liability for any filter damage that may occur.

Please contact us if you have any questions!

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Mechanical dimension for Customer Furnished Filters:

Group	Type	Housing	Aperture [mm]	Standard filter sizes	
				for rectangular filters [mm]	for circular filters [mm]
Standard products	LIE-200 / LIE-201	TO18	ø2.3	2.65 +0.05/-0 x 2.65 +0.05/-0	ø3.3 ±0.1
	LIE-202 / LIE-216			thickness range 0.70 ... 1.10 on request	
	LIE-235 / LIE-241	TO39	5.0 sq.	5.25 +0/-0.05 x 5.25 +0/-0.05 thickness range 0.70 ... 1.10 on request	ø6.5 ±0.1
	LIE-245 / LIE-251				
	LIE-302 / LIE-316				
	LME-300 / LME-301				
	LME-302 / LME-316				
	LME-335 / LME-341				
	LME-345 / LME-351				
	LME-500 / LME-501				
	LME-502				
LME-541 / LME-551					
Extended Products	LIE-309 / LIE-329	TO8	ø9.5	not applicable	ø10.0 ±0.1
	LIE-312 / LIE-312f	TO39	ø5.0	5.25 +0/-0.05 x 5.25 +0/-0.05 thickness range 0.70 ... 1.10 on request	ø6.5 ±0.1
	LIE-332 / LIE-332f				
	LME-337 / LME-353				
	LME-392 / LME-553				
Multi-color Products	LIM-011 / LIM-012	TO8	ø4.0	channel filter: 2.70 +0/-0.1 x 2.00 +0.05/-0.1 aperture window: 5.25 +0/-0.05 x 5.25 +0/-0.05	channel filter: not applicable aperture window: ø6.5 ±0.1
	LIM-032	TO39	5.0 sq.		
	LIM-052 / LIM-054	TO8	ø4.0	not applicable	
	LIM-112 / LIM-212 / LIM-312	TO8	ø3.5		4.20 ±0.1 x 4.20 ±0.1
	LIM-114 / LIM-214 / LIM-314				
	LIM-122 / LIM-222	TO39	2.7x1.8		3.50 ±0.1 x 2.50 ±0.1
	LIM-162 / LIM-262				
	LMM-242 / LMM-244	TO8	ø3.5		4.20 ±0.1 x 4.20 ±0.1

Standard thickness for all filters: **0.60**+0.1/-0.2 mm

Please ask for using other filter sizes!

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