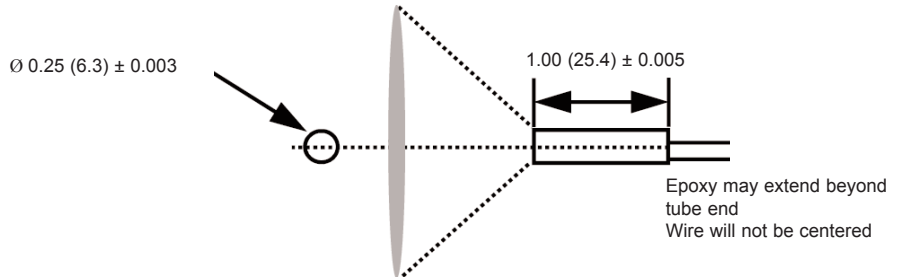




**ATTENTION OEM'S**  
**Introducing the NEW:**  
**micro IRt/c**

**The World's Smallest and Lowest Cost IRt/c™**



**Features**

- Small Size
- Lowest Cost
- Variety of mounting options
- Self powered
- Air purge (optional)

**Specifications**

	P/N	Model	2% Linear Temperature Range
<b>Recommended Sensing Ranges</b>	150041	μIRt/c-K-80F/27C	40-118° F (4-48° C)
	150042	μIRt/c-K-98.6F/37C	77-104° F (25-40° C)
	150040	μIRt/c-K-140F/60C	90-180° F (32-82° C)
	150043	μIRt/c-K-180F/90C	170-220° F (77-104° C)
	150044	μIRt/c-K-240F/120C	220-245° F (104-118° C)
	150045	μIRt/c-K-280F/140C	270-310° F (132-154° C)
	150046	μIRt/c-K-340F/170C	330-370° F (166-188° C)
	150047	μIRt/c-K-440F/220C	415-465° F (213-241° C)
<b>Ambient Temperature Range</b>	-40 to 212°F (-40 to 100 °C)		
<b>Sensing Range - All Models</b>	0 to 975°F (-18 to 524 °C) with linearization at readout		
<b>Field of View</b>	approximately 1:2 (100°)		
<b>Minimum Spot size</b>	3 mm (.1")		
<b>Spectral Response</b>	5.5 to 20 μm		
<b>Output</b>	K type thermocouple		
<b>Impedance</b>	15 – 40 Kohms, varies depending on temperature range		
<b>Emissivity (e)</b>	.90		
<b>Resolution</b>	Approximately 0.0003°C (Johnson Noise limited)		
<b>Response Time</b>	50 millisecond time constant (typical)		
<b>Accuracy (Interchangeability)</b>	1% to factory calibration conditions		
<b>Dimensions</b>	0.25" (6.3 mm) Dia. x 1.0" (25.4 mm)		
<b>Housing</b>	Stainless Steel		
<b>Cable Assembly</b>	3 feet of unshielded, duplex insulated, type K, 24 AWG, PFA jacket rated to 500 °F (260 °C) (Shielded cable available upon request)		
<b>Humidity</b>	Non-Condensing		
<b>Power Requirements</b>	None, self-powered signal output		
<b>Sealed</b>	Hermetically sealed, exceeds NEMA 4X, IP67		
<b>Weight</b>	Approximately 30 grams (1 oz.)		
<b>Input Device Compatibility</b>	It is recommended to use input devices with less than 1 nA of leakage current to minimize offsets, and sensor break detection should be set to 40 kohm maximum.		



# micro IRt/c Accessories

## APJ-1 Air Purge Jacket P/N 150066



This convenient and inexpensive kit makes it possible to use the micro IRt/c™ with air for service in harsh environments. Measuring only 3/8" x 3" (9.5 x 76 mm) overall, the APJ-1 is physically small enough to fit into tight areas and closely monitor process temperatures from the optimum position - up close. This air purge kit ensures that the performance of a micro IRt/c does not degrade because of contamination by deposits of airborne chemicals or particles on the sensor. Efficient in design, the APJ-1 requires as little as 3.5 SCFH (1.7 L/min) of air to protect a micro IRt/c. In addition to keeping a micro IRt/c clean, the airflow through the air purge jacket can cool a micro IRt/c, allowing it to operate in environments of up to 347 °F (175 °C) with only 35 SCFH (17 L/min) at 5 psig (0.33 bar).

### Features

- Small Size - 3/8" dia. x 3" long (9.5 x 76 mm)
- Aluminum housing
- Attaches to standard 3/8" tube fitting or 3/8" ID tubing
- Air purge and cooling



**150062 & 836068**  
**micro Thru-Fitting & MB-2 Mounting Bracket**  
plastic fitting with lock nut, sealing nut, and hub  
1.17" x 0.59" (29.7 x 14.99 mm)  
PG-7 thread



**150037**  
**MB-5 micro clamp mounting bracket**  
Stainless Steel, with silicone cushions  
0.25" diameter



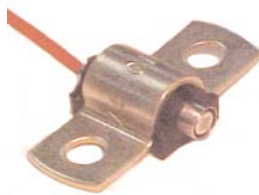
**150038**  
**MB-4 APJ-1 clamp mounting bracket**  
Stainless Steel, with silicone cushions  
0.38" diameter



**150065**  
**APJ-1 Omega clamp**  
metal clamp with rubber cushion for mounting  
1.81" x 0.78" (45.97 x 19.81 mm)



**108000**  
**IRt/c connector kit**  
type K thermocouple connectors



**150064**  
**micro Omega clamp**  
metal clamp with rubber cushion for mounting  
1.81" x 0.78" (45.97 x 19.81 mm)



**150063**  
**APJ-1 Thru-Fitting**  
plastic fitting with lock nut, sealing nut and hub  
1.17" x 0.59" (29.7 x 14.99 mm)  
PG-7 thread

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