



3mm Surface Mount
Trimmer Capacitors

56 Series

Product Features

- Low Cost Applications
- Low Temperature Drift
- Designed for reflow soldering
- Low Magnetics
- Surface Mount Design
- Half Turn Adjustment
- Tape & Reel Packaging
- RoHS Compliant

Product Applications

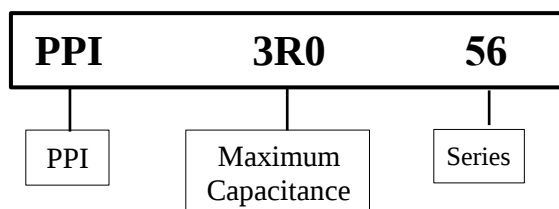
- NMR/ MRI Applications/Pre-Amplifiers
- Commercial Instrumentation
- RFID
- Tunable Filter Circuits

Specifications

- Capacitance Range: 1.5pF to 40pF
- DC Working Voltage: 125V
- DC Withstanding Voltage: 250V



Part Numbering



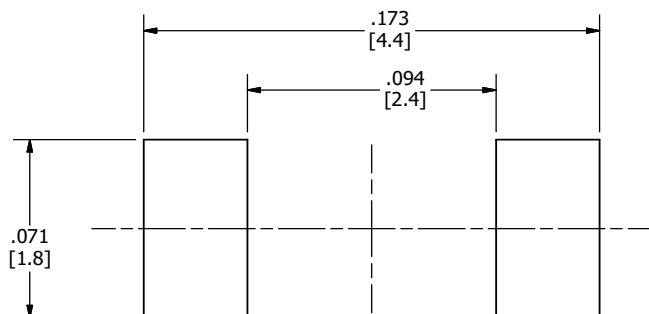
Part Number		PPI3R056	PPI6R056	PPI10056	PPI15056	PPI20056	PPI30056	PPI40056
Capacitance (pF)	Minimum	1.5	2.0	2.0	3.0	4.5	5.5	8.0
	Maximum	3.0 +50% -0%	6.0 +50% -0%	10.0 +100% -0%	15.0 +100% -0%	20.0 +100% -0%	30.0 +100% -0%	40.0 +100% -0%
Marking Color		Black	Blue	White	Pink	Red	Orange	Yellow
DC Working Voltage		125	125	125	125	125	125	125
DC Withstanding Voltage		220	220	220	220	220	220	220
Temperature Coefficient (ppm/°C)		0 ± 200	0 ± 300	0 ± 300	0 ± 500	0 ± 500	-1500 ± 1000	-1500 ± 1000
Q (min.) at 1 MHz		500	500	500	500	500	200	200
Self Resonant Frequency at Maximum Rated Capacitance		2.9 GHz	2.05 GHz	1.6 GHz	1.3 GHz	1.15 GHz	0.92 GHz	0.84 GHz
Insulation Resistance		10 ⁴ megaohms						
Operating Temperature		-40°C to +85°C						
Torque		11 to 72 gf.cm max. 0.14 to 1.0 in-oz max.						
Packaging		All parts furnished on 12mm tape and reel; 1,000 pcs per reel						



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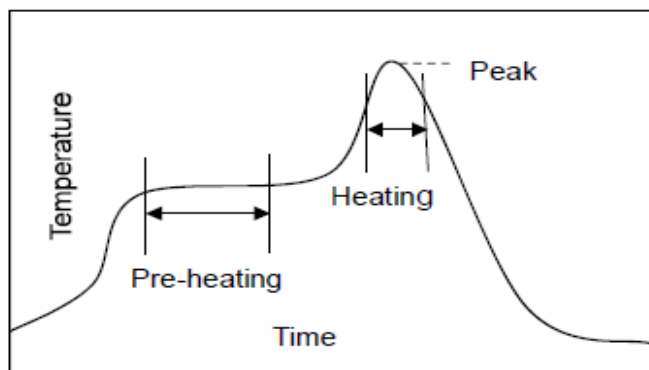
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Land Pattern Dimensions (inches/mm)



SUGGESTED FOOTPRINT
SOLDER PASTE THICKNESS OF 0.15 [mm] RECOMMENDED

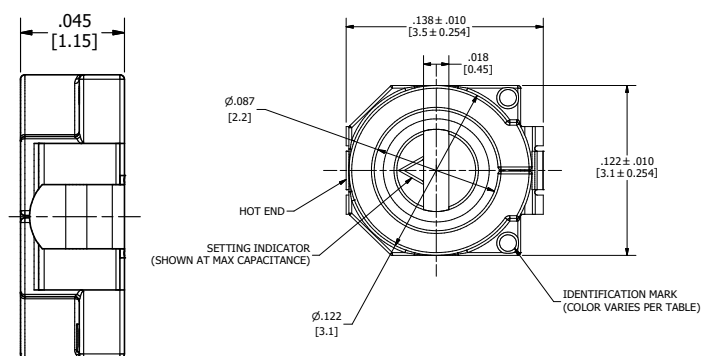
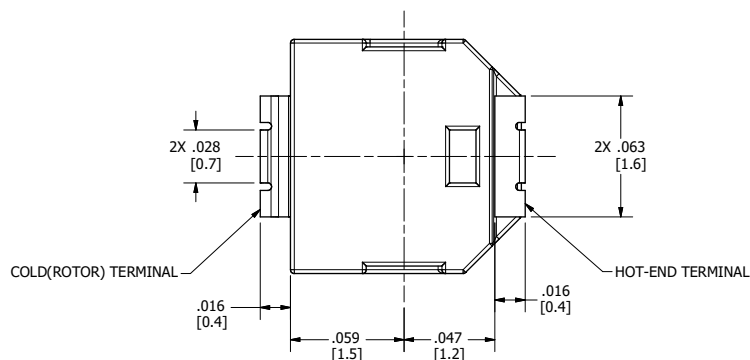
Suggested Soldering Profile



Stage	SAC305 Solder	Eutectic Solder
Pre-Heating	Temp: 150°C - 180°C Time: 60 - 120 Seconds	Temp: 120°C - 150°C Time: 60 - 120 Seconds
Heating	Temp: 220°C Min Time: 30 - 60 Seconds	Temp: 183°C Min Time: 30 - 60 Seconds
Peak Heat	Temp: 265°C Time: 3 Seconds Max	Temp: 265°C Time: 3 Seconds Max
Reflow Cycles	2 Times Max	2 Times Max
Soldering Iron		
Spec	Temperature: 400°C Max Time: 3 Seconds Max	

While PPI makes every effort to provide up to date and complete industry standard information, individual reflow equipment and applications vary. No guarantee is given that the suggested profile is suitable for any application or use.

Dimensions (inches/mm)



Tape & Reel Specifications

Series	Measurement Unit	W	P0	P1	T	F	Minimum Qty per Reel	Tape Material
56	in.	0.472	0.157	0.315	0.012	0.217	1000	Plastic
	mm	12.0	4.0	8.0	0.3	5.5		

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- Determined by component size. Typical clearance between the cavity and the component is:
.50 (.002) min to .65 (.026) max for 12mm tape.
- The component cannot rotate more than 20° within the determined cavity.

