

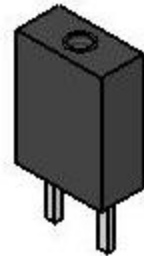
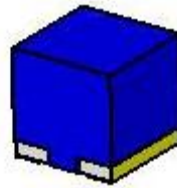
# FIXED & TUNABLE INDUCTORS

*Changing and finite frequency bands in rugged environments are the reasons why nearly 200 military systems manufacturers have approved Piconics, Inc. as a key supplier.*

**Our QPL part numbers listed under MIL-PRF-83446 and MIL-PRF-15305 can be found in platforms such as; the Patriot Missile, Fleet Satellite Communications Space System, Wild Weasel F14, F15 and F16, and the Infrared Detection System (IRADS).**

The Company's successful entry into the Apollo Program in 1965 lead Piconics to develop a series of micro-miniature inductors geared towards harsh and rugged environments that feature:

- Fixed and tunable inductance
- Molded case SMT styles for pick & place
- High reliability
- Leaded and chip styles
- Excellent stability over temperature
- High L&Q in a small package
- Survives reflow soldering techniques without degradation
- In-assembly tuning



## Typical Applications Include:

- Commercial & military communications platforms (*Ground and Flight*)
- Test & measurement instrumentation
- Medical scanning & imaging platforms
- Aviation and space based control platforms
- Military & commercial radar systems

Piconics, Inc. is committed to supporting legacy platforms and new platforms that may be coming due for refurbishing or program resurgence. Our 98% on-time delivery rating may be of interest if you are considering a changeover from a competing QPL part number to a Piconics, Inc. QPL part number.

**RoHs Compliant Available**

ISO 9001:2008 Certified



P: 978-649-7501  
F: 978-649-9643



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Rev.A-2009

# Fixed & Tunable Inductor Specifications

## Fixed-Chip Inductors

Series	Length in	Width in	Height in	L uH	SRF Min MHz	Case Style	QPL Number
P	.180	.140	.065-.095	.010-1000	1.1-1200	Conformal Coated Chip	M83446/12-XX
PA	.100	.100	.100	.010-1000	4-1200	Molded SMT Chip	M83446/13-XX
PG	.160	.125	.130	.010-1000	4-1200	Molded SMT Chip	M83446/14-XX
PK	.160	.125	.130	.010-1000	4-1200	Molded SMT Chip	M83446/14-XX
PW	.180	.140	.065-.095	.010-1000	1.1-1200	Conformal Coated Chip	M83446/15-XX

## Fixed-Leaded Inductors

Series	Length in	Width in	Height in	L uH	SRF Min MHz	Case Style	QPL Number
C	.200	.090	.105	.010-1000	1.1-1200	Conformal Coated	NA
D	.200	.085-.095	.085-.095	.010-1000	1.1-1200	Molded Case	NA
JA	.110-.180	.060-.075	.060-.075	.045-1000	1.1-3000	Epoxy Coated, Open Frame	NA
JC	.180	.085	.085	.045-1000	1.1-3000	Bonded Open Frame	NA

## Tunable-Chip Inductors

Series	Length in	Width in	Height in	L uH	SRF Min MHz	Case Style	Adjustment Style	QPL Number
PGV	0.160	0.125	.330	.012-1000	1.0-1200	Molded	Screw (Top)	M83446/16-XX
PSV	.320	.165	.130	.012-1000	1.1-1200	Molded	Screw (Side)	M83446/19-XX
PV	.150-.300	.140	.065-.095	.012-1000	1.1-1200	Conformal Coat	Slide	M83446/17-XX
PVW	.150-.300	.140	.065-.095	.010-1000	1.1-1200	Conformal Coat	Slide	M83446/18-XX

## Tunable-Leaded Inductors

Series	Length in	Width in	Height in	L uH	SRF Min MHz	Case Style	Adjustment Style	QPL Number
B	.325-.425	.110	.150	.020-1000	1-1000	Molded	Side Screw	MS53231-XX & MS53232-XX
G	.150-.300	.090	.105	.018-1000	1.1-1000	Conformal Coat	Slide	NA
ST	.200	.100	.275	.020-1000	1.1-1000	Molded	Top Screw	MS53229-XX & MS53230-XX
TT	.285	.110	.325-.450	.020-1000	1.1-1000	Molded	Top Screw	MS53233-XX & MS53234-XX

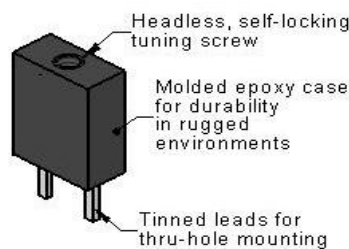
## In-House QPL Testing

**MIL-PRF-15305**

**MIL-PRF-83446 Groups A,B&C**

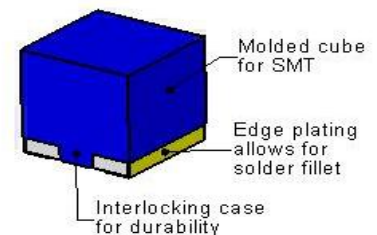
*\*Piconics has capabilities to test for the above listed in-house with the exception of barometric pressure, mechanical shock and vibration.*

## Typical Leaded Tunable



*Piconics ST Shown*

## Typical Fixed Chip



*Piconics PA Shown*



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**EC** *Tect Electronics*  
The authorized distributor in the Greater China Region

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