

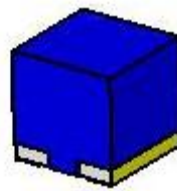
# FIXED & TUNABLE INDUCTORS

*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

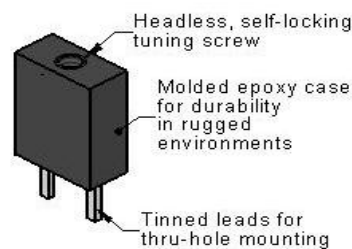
## In-House QPL Testing

**MIL-PRF-15305**

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

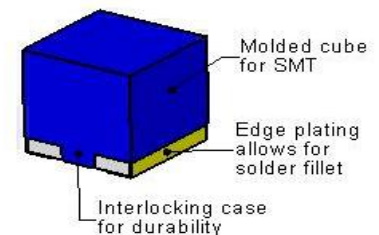
*\*Piconics has capabilities to test for the above listed in-house with the exception of barometric pressure, mechanical shock and vibration.*

## 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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