



K & M SERIES RF WIDEBAND TRANSFORMER



MIL-PRF-27

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Temperature Rise @ 90°C:** < 45°C
- **Inductance at rated DC:** < 30%
- **Dielectric Withstanding Voltage:** 100 V_{AC}
- **Different electrical values available upon request**
- **Power Rating:** 250 mW
- **Outgassing TML:** <1%
- **Frequency Response:** 500 KHz to 3 GHz

FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-T-55631** specifications
- **Low thermal expansion, Transfer Molded Package**
- **Terminations:** Tin-lead coated
- **Welded Internal Connections**
- **Moisture, Shock, and Immersion Resistant**
- **Resistance to Soldering Heat:** 275°C for 10 secs
- **Other termination finishes available**

APPLICATIONS

- Filter inductors
- Ripple suppressors
- Common mode chokes
- Isolation transformers
- Step up transformers
- Step down transformers
- Power supplies
- DC/DC converters
- SEPIC converters

CUSTOM DESIGNS & MODIFICATIONS:

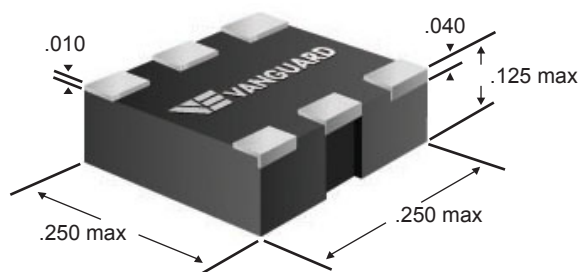
Other electrical configurations and performance characteristics are available in various sizes and package types

Bandwidth (MHz)	Max Insertion Loss @ 50MHz	Impedance Ratio
0.5 to 390	9.7 to 1.7	1:1 to 1:16

MARKINGS: LASER OR INK

K SERIES

SCHEMATIC



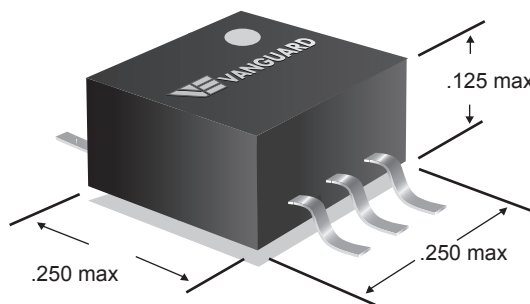
ACTUAL SIZE



THRU-HOLE PACKAGES
ALSO AVAILABLE

M SERIES

SCHEMATIC



ACTUAL SIZE





DATA TABLE

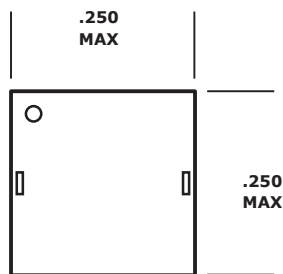
Vanguard P/N K Series	Vanguard P/N M Series	Impedance Ratio Pri : Sec	Primary Center Tap**	Secondary Center Tap	max Insertion Loss (dB) at 50 (MHz)	max VSWR at 50 (MHz)	min Bandwidth (MHz)	
							0.5 dB (Ripple)	3 dB Points
KUB55D	MUB55D	1 : 1	No	Yes	0.7	1.3	5.0 - 130	1.0 - 390
KUB57D	MUB57D	1 : 1.5	No	Yes	1.5	1.6	6.0 - 90	3.0 - 200
KUB510D	MUB510D	1 : 2	No	Yes	1.1	1.35	2.0 - 100	0.5 - 230
KUB520D	MUB520D	1 : 4	No	Yes	0.9	1.2	2.0 - 150	0.8 - 300
KUB580D	MUB580D	1 : 16	No	Yes	1.2*	1.7*	12 - 35	2.0 - 140
KUU55D	MUU55D	1 : 1	No	No	0.9	1.35	7.0 - 100	1.2 - 350
KUU57D	MUU57D	1 : 1.5	No	No	1.7	1.65	8.0 - 70	4.0 - 170
KUU510D	MUU510D	1 : 2	No	No	1.3	1.4	3.0 - 85	0.9 - 200
KUU520	MUU520	1 : 4	No	No	1.1	1.25	4.0 - 130	1.0 - 250
KUU580D	MUU580D	1 : 16	No	No	1.5*	1.95*	12 - 25	2.5 - 110

Inductance measured at 10 kHz, 0.1 V_{RMS} *Measured at 15 MHz **To design with primary center tap - contact factory.

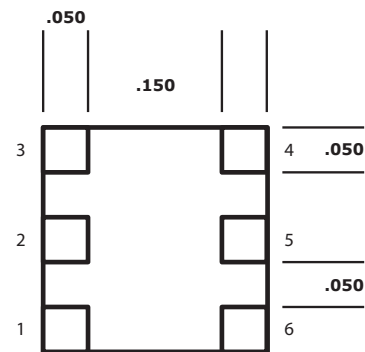
K SERIES



SIDE VIEW

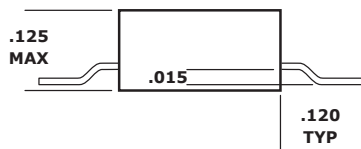


TOP VIEW

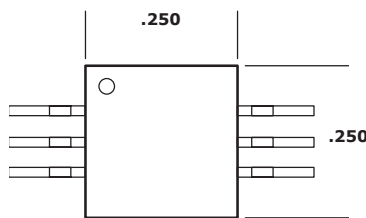


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

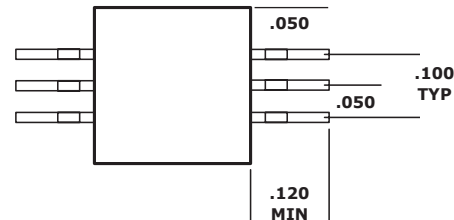
M SERIES



SIDE VIEW



TOP VIEW



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

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