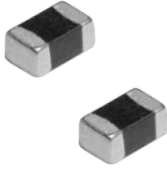


## MIV Series

### Multilayer Chip Inductor

#### Size 2012



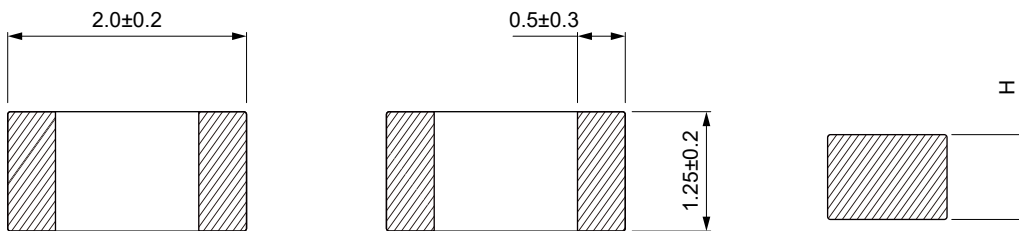
#### FEATURES

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Shapes and dimensions follow E.I.A. spec and available in various sizes.
- Excellent solder ability and heat resistance.
- AEC-Q200 qualified
- Lead-free reflow soldering as referenced in JEDEC J-STD 020D and RoHS compliant
- Operating Temperature:  $-55\sim+125\text{ }^{\circ}\text{C}$  (Including self-temperature)
- Quantity: 4000 pcs

#### APPLICATION

- Filter switches
- Oscillators
- T- or  $\pi$ -Filter
- Automotive equipment

#### Dimensions: [mm]



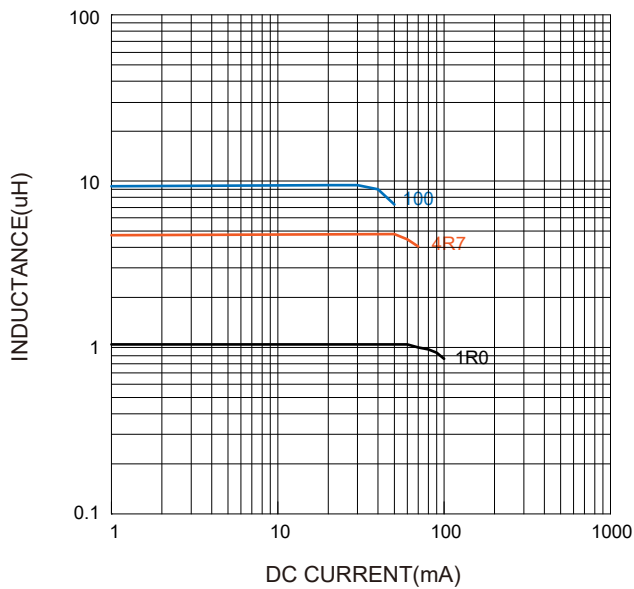
#### Electrical Properties:

Part No	Inductance (uH)	Tolerance	Q Min.	Test Frequency Q (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. ( $\Omega$ )	SRF Min. (MHz)	thicness H (mm)
MIV2012-47NK	0.047	$\pm 10\%$	15	50	300	0.20	320	$0.85\pm 0.2$
MIV2012-R10K	0.10	$\pm 10\%$	20	25	250	0.30	235	$0.85\pm 0.2$
MIV2012-R12K	0.12	$\pm 10\%$	20	25	250	0.30	220	$0.85\pm 0.2$
MIV2012-R15K	0.15	$\pm 10\%$	20	25	250	0.40	200	$0.85\pm 0.2$
MIV2012-R18K	0.18	$\pm 10\%$	20	25	250	0.40	185	$0.85\pm 0.2$
MIV2012-R22K	0.22	$\pm 10\%$	20	25	250	0.50	170	$0.85\pm 0.2$
MIV2012-R27K	0.27	$\pm 10\%$	20	25	250	0.50	150	$0.85\pm 0.2$
MIV2012-R33K	0.33	$\pm 10\%$	20	25	250	0.55	145	$0.85\pm 0.2$
MIV2012-R39K	0.39	$\pm 10\%$	25	25	200	0.65	135	$0.85\pm 0.2$
MIV2012-R47K	0.47	$\pm 10\%$	25	25	200	0.65	125	$1.25\pm 0.2$
MIV2012-R56K	0.56	$\pm 10\%$	25	25	150	0.75	115	$1.25\pm 0.2$
MIV2012-R68K	0.68	$\pm 10\%$	25	25	150	0.80	105	$1.25\pm 0.2$

Part No	Inductance (uH)	Tolerance	Q Min.	Test Frequency Q (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)	thicness H (mm)
MIV2012-1R0K	1.0	±10%	45	10	50	0.40	75	0.85±0.2
MIV2012-1R5K	1.5	±10%	45	10	50	0.50	60	0.85±0.2
MIV2012-1R8K	1.8	±10%	45	10	50	0.60	55	0.85±0.2
MIV2012-2R2K	2.2	±10%	45	10	30	0.65	50	0.85±0.2
MIV2012-2R7K	2.7	±10%	45	10	30	0.75	45	1.25±0.2
MIV2012-3R3K	3.3	±10%	45	10	30	0.80	41	1.25±0.2
MIV2012-4R7K	4.7	±10%	45	10	30	1.00	35	1.25±0.2
MIV2012-100K	10	±10%	45	2	15	1.15	24	1.25±0.2

### Typical Electrical Characteristics:

Inductance VS. DC Current Characteristics:



Q VS. Frequency Characteristics:

