

MOX-RFBT3 SERIES



MoxiE
INDUCTOR CORPORATION

Low Temperature Cofired Ceramic BALUN

Features:

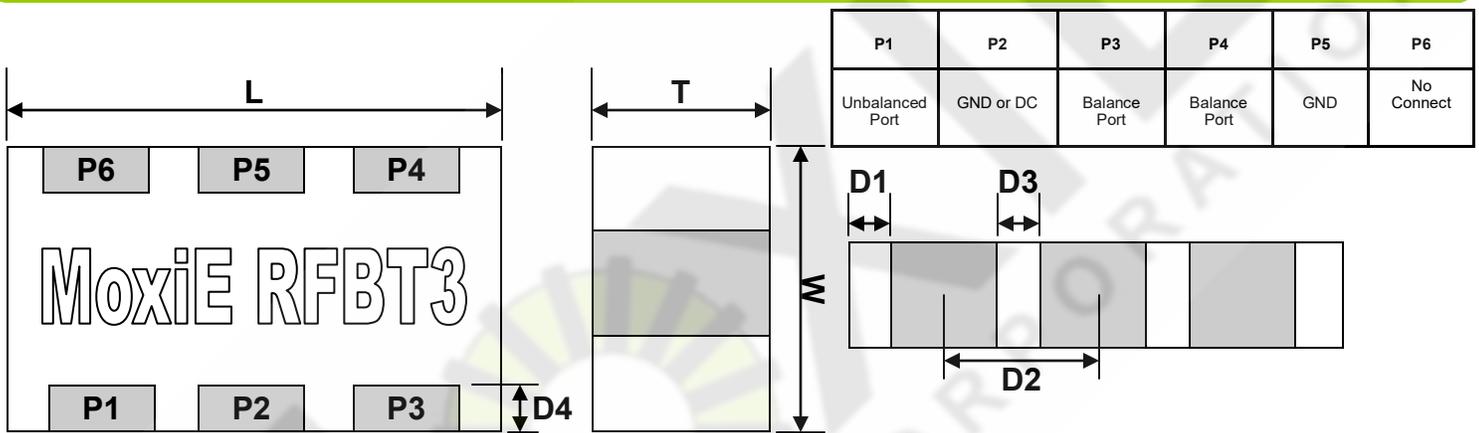
- Miniaturized design.
- Low insertion loss.
- Low Cost.
- RoHS Compliant.
- Operating temperature: -25°C ~ 85°C
- High rejection at lower stop band and 2nd harmonic band.

Applications:

- WLAN & Bluetooth.



MECHANICAL DIMENSIONS

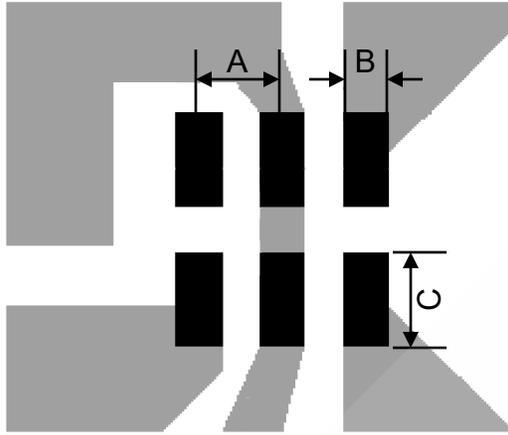


ALL DIMENSIONS IN MM

MoxiE Part Number	L	W	T	P1 ~ P6	D1	D2	D3	D4
MOX-RFBT3-1810	1.6 ± 0.1	0.8 ± 0.1	0.55 ± 0.1	0.3 ± 0.1	0.1 ± 0.1	0.55 ± 0.1	0.25 ± 0.1	0.15 ± 0.1
MOX-RFBT3-2005	2.0 ± 0.1	1.25 ± 0.1	0.65 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.65 ± 0.1	0.35 ± 0.1	0.3 ± 0.1
MOX-RFBT3-2007	2.0 ± 0.1	1.25 ± 0.1	0.65 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.65 ± 0.1	0.35 ± 0.1	0.3 ± 0.1
MOX-RFBT3-2010	2.0 ± 0.1	1.25 ± 0.1	0.65 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.65 ± 0.1	0.35 ± 0.1	0.3 ± 0.1
MOX-RFBT3-2020	2.0 ± 0.1	1.25 ± 0.1	0.65 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.65 ± 0.1	0.35 ± 0.1	0.3 ± 0.1



RECOMMENDED LANDING PATTERN



P/N	A	B	C
MOX-RFBT3-1810	0.55 ± 0.1	0.3 ± 0.1	0.6 ± 0.1
MOX-RFBT3-2005	0.65 ± 0.1	0.35 ± 0.1	1.0 ± 0.1
MOX-RFBT3-2007	0.65 ± 0.1	0.35 ± 0.1	1.0 ± 0.1
MOX-RFBT3-2010	0.65 ± 0.1	0.35 ± 0.1	1.0 ± 0.1
MOX-RFBT3-2020	0.65 ± 0.1	0.35 ± 0.1	1.0 ± 0.1



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Pass Band (MHz)	Unbalanced Impedance	Balanced Impedance	Unbalanced Impedance (VSWR)	Insertion Loss @ 25°C	Ripple	Phase Difference	Amplitude Difference
MOX-RFBT3-1810	2400-2500	50 Ω	100 Ω	2.0 (Max)	1.2dB (Max)	0.06dB	180 ± 10 Degree	2.0 dB (Max)
MOX-RFBT3-2005	2400-2500	50 Ω	50 Ω	2.0 (Max)	1.0dB (Max)	0.06dB	180 ± 10 Degree	2.0 dB (Max)
MOX-RFBT3-2007	2400-2500	50 Ω	70 Ω	2.0 (Max)	1.0dB (Max)	0.06dB	180 ± 10 Degree	2.0 dB (Max)
MOX-RFBT3-2010	2400-2500	50 Ω	100 Ω	2.0 (Max)	1.0dB (Max)	0.06dB	180 ± 10 Degree	2.0 dB (Max)
MOX-RFBT3-2020	2400-2500	50 Ω	200 Ω	2.0 (Max)	1.0dB (Max)	0.06dB	180 ± 10 Degree	2.0 dB (Max)



MOX-RFBT3 ENGINEERING NOTES

- MoxiE test instruments: Agilent E5071B/N5230A vector network analyzer.
- Central frequency: 2400 = 2.4 GHz
- Packaging: Tape & Reel (4000 pieces per reel)
- RoHS Compliant.
- MoxiE engineering specifications are subject to change without notice.