MOX-CBF SERIES

MoxiE INDUCTOR CORPORATION

Low Temperature Cofired Ceramic Combo Balance Filters

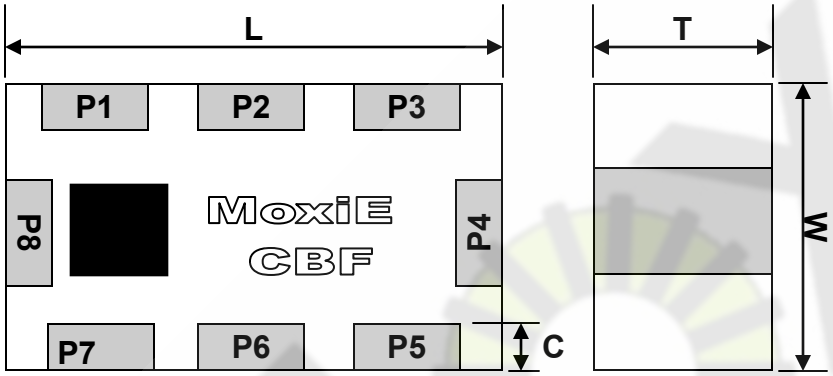
Features:

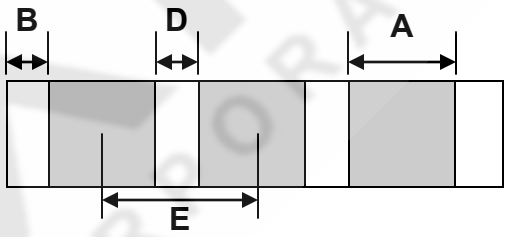
- Miniaturized design.
- Low insertion loss.
- Low Cost.
- RoHS Compliant.
- Operating temperature: -25°C ~ 85°C
- High rejection at lower stop band and 2nd harmonic band.

Applications:

- WLAN & Bluetooth.

MECHANICAL DIMENSIONS





ALL DIMENSIONS IN MM

P1	P2	P3	P4	P5	P6	P7	P8
NC	DC	Unbalance Port	GND	Balance	GND	Balance	GND

MoxiE Part Number	L	W	T	A	B	C	D	E
MOX-CBF-24501	2.0 ± 0.1	1.25 ± 0.1	0.9 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.3 ± 0.1	0.35 ± 0.1	0.65 ± 0.1
MOX-CBF-24502	2.0 ± 0.1	1.25 ± 0.1	0.9 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.3 ± 0.1	0.35 ± 0.1	0.65 ± 0.1

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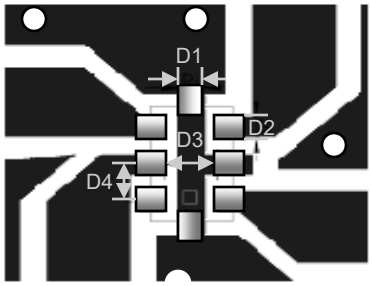
RECOMMENDED LANDING PATTERN



P/N	D1	D2	D3	D4
MOX-CBF-24501	0.35 ± 0.1	0.35 ± 0.1	0.80 ± 0.1	0.65 ± 0.1
MOX-CBF-24502	0.35 ± 0.1	0.35 ± 0.1	0.80 ± 0.1	0.65 ± 0.1

ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Pass Band (MHz)	Impedance Unbalance/ Balance (Ω)	VSWR	IL (dB)	Ripple (dB)	Difference Amplitude / Phase (dB) / (Degree)	Attenuation
MOX-CBF-24501	2400-2500	50/100	2	3.5	0.6	2/180 ± 10	40dB Min @ 880-960MHz ref 27dB Min @ 1710-1880 MHz 20dB Min @ 1880-1990MHz 15dB Min @ 2110-2170 MHz 20dB Min @ 5000 MHz 20dB Min @ 7500 MHZ
MOX-CBF-24502	2400-2500	Conjugate match to CSR BC Series	2	3.5	0.6	2.2/180 ± 10	30dB Min @ 880-960 ref 20dB Min @ 1710-1880 MHz 15dB Min @ 1880-1990 MHz 10dB Min @ 2110-2170 MHz 20dB Min @ 5000 MHz 20dB Min @ 7500 MHz

MOX-CBF 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.