

4Ports Waveguide Circulators



4÷11 GHz, from R48 to R100
High Isolation & Return Loss
Insertion Loss < 0.2 dB

Microwavefilters & TVC srl

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Microwavefilters® &

The 4 ports waveguide circulator series is a new family of high performing circulators from **4 GHz to 11 GHz**.

Electrical Characteristics

Product code	Freq. range GHz	Insertion loss Port 1-2 & 3-4	Insertion loss Port 2-3 & 4-1	Return loss All ports 25°C / extreme	Isolation Port 2-1 & 4-3 25°C / extreme	Isolation Port 3-2 & 1-4 25°C / extreme	Dimensions mm
NC4-05	4.4 -5.0	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 23 dB	≥ 28 / ≥ 23 dB	≥ 50 / ≥ 45 dB	141.8x132.6x42
NC4-06L	5.9 -6.4	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 26 dB	≥ 28 / ≥ 26 dB	≥ 50 / ≥ 45 dB	135.5x129.5x36
NC4-06U	6.4 -7.1	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 26 dB	≥ 28 / ≥ 26 dB	≥ 50 / ≥ 45 dB	<u>135.5x129.5x36</u>
NC4-07	7.1 -7.9	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 26 dB	≥ 28 / ≥ 23 dB	≥ 50 / ≥ 45 dB	<u>132.1x127.5x32</u>
NC4-08	7.7 -8.5	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 26 dB	≥ 28 / ≥ 23 dB	≥ 50 / ≥ 45 dB	<u>132.1x127.5x32</u>
NC4-011	10.7 -11.7	≤ 0.2 dB	≤ 0.4 dB	≥ 28 / ≥ 26 dB	≥ 28 / ≥ 20 dB	≥ 50 / ≥ 45 dB	128.9x126.1x30

Forward Power: 50 W
 RF leakage : ≤ 70 dB
 Material : Aluminium alloy
 Flanges: from UER48 to UER100
 Temperature range: -33°C to +60°C (extreme)

