BDEB78
30dB Broadband Directional Coupler 380-2700MHz

MAIN FEATURES

- Designed for wireless applications
- High power directional coupler
- Low VSWR, insertion loss and PIM
- High isolation
- Internal resistive load
- High reliability
- Weather-proof housing

DESCRIPTION

This broadband coupler has been designed to combine or split signals in common mobile systems. The carefully designed multisection coupled transmission lines provides a broadband frequency range and high power handling. An integrated internal resistive termination ensure 50 Ω load at one port.

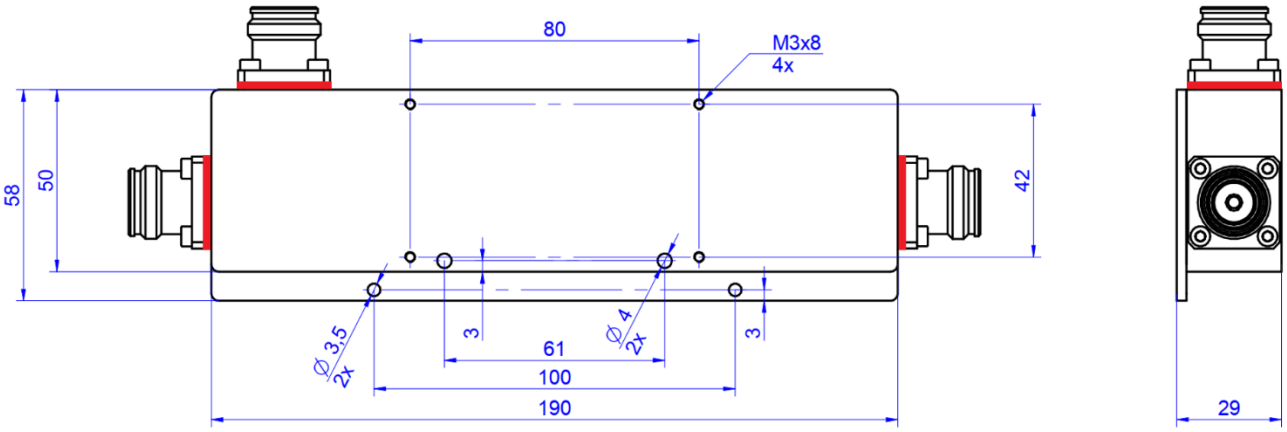
SPECIFICATIONS

RF PARAMETERS	
Frequency range	380 – 2700 MHz
Nominal coupling	30 dB
Coupling ripple	max. ±1.6 dB
Dissipation loss	≤0.2 dB
Return loss @ all ports	<-21 dB, max. -19 dB
Isolation	≥42 dB
Measured 3rd order IM products	≤-160 dBc @ 2 x 43 dBm, main port
Impedance	50 Ω
Maximum input power @ main input	300 W
MECHANICAL PARAMETERS	
Connectors	4.3-10 – female
Dimensions (without connectors)	190 x 50 x 29 mm (see outline dimensions)
Colour	Light Grey (RAL 7047)
ENVIRONMENTAL PARAMETERS	
Operating temperature range	-30 °C ... 70 °C
Degree of protection	IP65 (Outdoor)

Specifications are subject to change without notice.

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OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BDEB78K11543	BDEB78 30 dB, 380-2700 MHz, 300 W, directional coupler, 4.3-10 connector

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BDEB78-LM-K11543	V01	2024-09-06