

Engineering Development Model

DC Pass, High Power Directional Coupler

ZGDC6-ED13551/1

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE : HT1398

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter		Min.	Typ.	Max.	Units
Frequency		380		3600	MHz
Coupling	Nominal		6.9±1.6		dB
	Flatness		±1.0		dB
Mainline Loss(1)	380-3600 MHz		1.40		dB
Directivity	380-3600 MHz		27		dB
VSWR	380-3600 MHz		1.10		(:1)
RF Power Input (2)	380-2700 MHz			250	W
	2700-3600 MHz			160	

(1) Mainline loss includes theoretical coupled power loss of 0.992 dB at 6.9dB coupling.

(2) At 20°C, derate linearly to 100W (380-2700 MHz) and to 64W (2700-3600 MHz) from 25°C to 100°C. Output load VSWR 2.0:1 Max.

MAXIMUM RATINGS

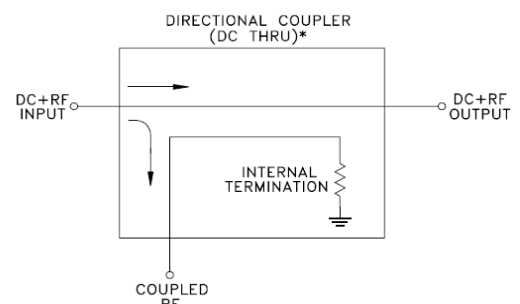
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Current	3A
Supplied Termination (3)	10W

(3) Derate linearly by 0.18W/°C from 70°C to 100°C

COAXIAL CONNECTIONS

INPUT	IN
OUTPUT	OUT
COUPLED	CPL
INTERNAL TERMINATION (50 Ω)	TERM

Electrical Schematic



* ELECTRICAL SCHEMATIC FOR DIRECTIONAL COUPLER THAT IS DESIGNED WITHOUT INTERNAL TRANSFORMERS.