HenryTech

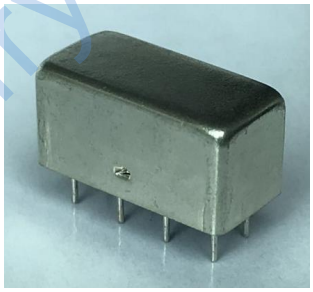
Directional Coupler

HT-PDC-20-3+

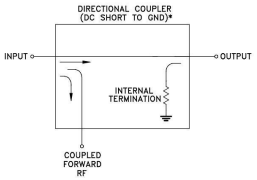
Features
- wideband, 0.25 to 250 MHz
- low insertion loss, 0.25 dB typ.

Applications
- HF/VHF
- defense & federal communications
- power levelling

Maximum Ratings
Operating Temperature -50°C to 100°C
Storage Temperature -40°C to 100°C
RF Power 4W
Permanent damage may occur if any of these limits are exceeded.



Electrical Schematic



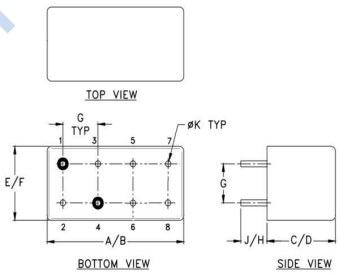
Transformer Electrical Specifications

FREQUENCY (MHz)	COUPLING(dB)		MAINLINE LOSS1* (dB)		DIRECTIVITY (dB)		VSWR
	min	max	min	max	min	max	Typ.
0.25-250	15	30	0.4	0.6	22	35	1.2

Typical Performance Data

FREQUENCY (MHz)	Mainline Loss (dB)	Coupling (dB)	Directivity (dB)	Return Loss (dB)		
	In-Out	In-Cpl		In	Out	Cpl
0.3	0.29	19.54	36.6	21.3	20.9	21.6
0.6	0.30	19.53	36.6	27.9	26.8	27.4
1.0	0.27	19.52	36.7	29.3	27.8	29.6
9.0	0.21	19.53	39.5	38.5	31.2	37.5
26.0	0.21	19.53	39.5	39.5	31.2	38.2
80.0	0.24	19.52	39.6	36.2	31.3	36.3
120.0	0.25	19.52	39.7	30.1	30.2	33.1
150.0	0.25	19.53	39.4	29.2	30.1	32.3
200.0	0.27	19.52	34.6	28.3	27.6	28.2
250.0	0.28	19.52	32.1	26.3	27.4	26.2

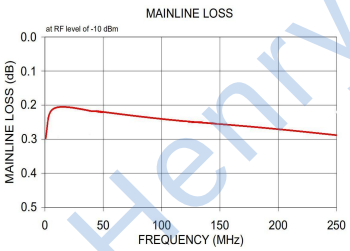
Outline Drawing

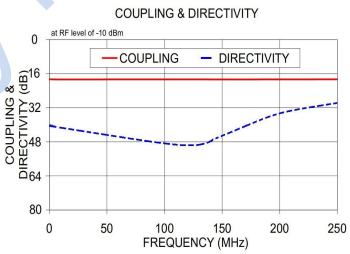


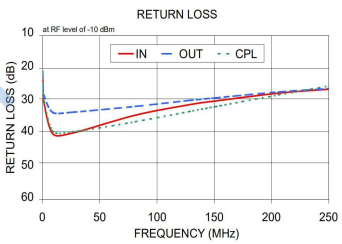
Unit (mm)	
A	19.80
B	20.30
C	9.94
D	10.00
E	10.06
F	10.11
G	5.08
H	4.50
J	4.65
K	0.6

Note:
The dimensional tolerance of 'K' is ± 0.2mm.
Other dimensional tolerance is ± 0.15mm.

Pin Connections	
INPUT	1
OUTPUT	4
COUPLED	3
GROUND	2,5,7,8
NOT USED	6







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