

Coupler (0.25-250MHz)

Features

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

Applications

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

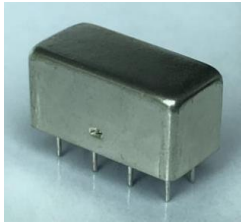
Maximum Ratings

Operating Temperature -50° C to 100° C

Storage Temperature -40° C to 100° C

RF Power 4W

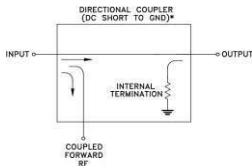
Permanent damage may occur if any of these limits are exceeded.



Transformer Electrical Specifications

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

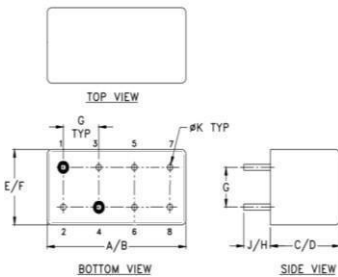
Electrical Schematic



Typical Performance Data

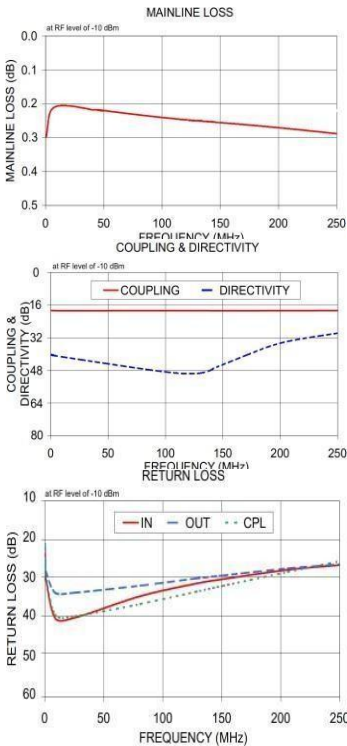
FREQUENCY (MHz)	Mainline Loss (dB)	Coupling (dB)	Directivity (dB)	Return Loss (dB)		
	In-Out	In-Cpl		In	Out	Cpl
0.3	0.29	19.54	36.6	21.3	20.9	21.6
0.6	0.30	19.53	36.6	27.9	26.8	27.4
1.0	0.27	19.52	36.7	29.3	27.8	29.6
9.0	0.21	19.53	39.5	38.5	31.2	37.5
26.0	0.21	19.53	39.5	39.5	31.2	38.2
80.0	0.24	19.52	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



Pin Connections

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



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 $\pm 0.2\text{mm}$.
Other dimensional tolerance is $\pm 0.15\text{mm}$.