

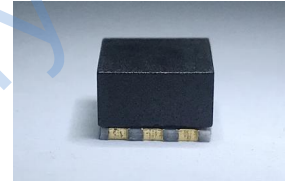
Features

- wideband, 10-300 MHz
- high isolation, 25 dB typ.
- good matching VSWR, 1.1 typ.
- excellent amplitude unbalance, 0.3 dB typ.

Applications

- cellular
- defense & federal communications

HT-LRPS-2-4



2 Way-0° 50Ω 10 to 1000 MHz

electrical schematic



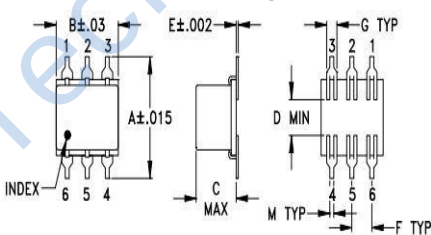
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance (dB) Max.
	min	max	min	max		
10-1000	16	25	0.5	1.2	3.0	0.4

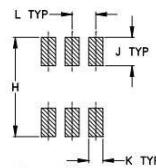
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency. (MHz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	PhaseUnbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
10.00	3.31	3.31	0.00	39.33	0.01	1.04	1.11	1.11
47.69	3.31	3.31	0.00	36.50	0.16	1.04	1.10	1.10
85.38	3.34	3.33	0.00	32.39	0.27	1.06	1.10	1.10
160.77	3.39	3.38	0.00	27.60	0.51	1.12	1.11	1.11
236.15	3.44	3.43	0.01	24.93	0.73	1.17	1.12	1.13
349.23	3.52	3.51	0.01	22.30	1.04	1.24	1.14	1.15
424.62	3.58	3.56	0.02	21.10	1.22	1.29	1.16	1.16
500.00	3.65	3.61	0.03	20.23	1.39	1.33	1.17	1.18
541.67	3.69	3.65	0.04	19.87	1.47	1.34	1.17	1.18
625.00	3.76	3.70	0.06	19.39	1.62	1.37	1.18	1.19
708.33	3.83	3.74	0.09	19.28	1.76	1.38	1.17	1.18
791.67	3.90	3.78	0.12	19.59	1.82	1.37	1.16	1.16
875.00	3.98	3.82	0.16	20.38	1.86	1.34	1.14	1.13
958.33	4.08	3.86	0.22	21.87	1.88	1.27	1.11	1.09
1000.00	4.14	3.89	0.25	22.95	1.88	1.23	1.10	1.07

Outline Drawing



PCB Land Pattern



Suggested Layout, Tolerance to be within ±0.02

Pin Connections

SUM PORT	6 (input)
PORT 1	4 (output1)
PORT 2	3 (output2)
PORT 3	1 (output3)
NOT USED	2,5

Maximum Ratings

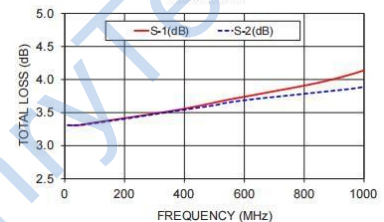
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1 W max.
Internal Dissipation	0.125W max.

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

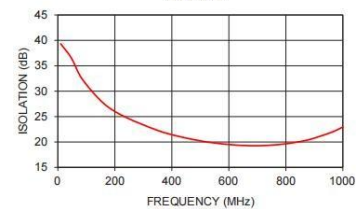
Outline Dimensions: Unit (mm)

A	10.16	J	3.05
B	7.87	K	1.52
C	5.08	L	2.54
D	2.54	M	0.51
E	0.25		
F	2.54		
G	1.27		
H	10.67		
WT	0.55g		

TOTAL LOSS



ISOLATION



VSWR

