

DC Pass

NON-CATALOG Power Splitter/Combiner

2 Way-0° 50Ω 7000 to 8600 MHz

IZY2PD-86+
IZY2PD-86


CASE STYLE: JJJ245

Connectors Model
SMA IZY2PD-86(+)
BRACKET (OPTION "B")

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

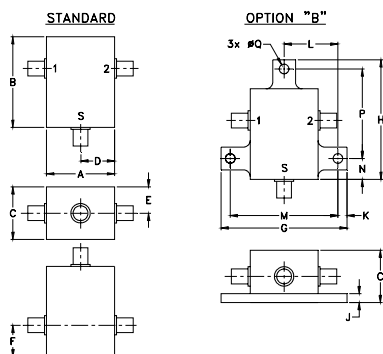
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

DC Current 1.0 A (500mA for each port)
 Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
0.75	1.00	0.58	0.38	0.29	0.35	1.39	1.32
19.05	25.4	14.732	9.65	7.37	8.89	35.31	33.53
J	K	L	M	N	P	Q	wt
0.10	0.10	0.595	1.19	0.23	0.995	0.106	grams
2.54	2.54	15.11	30.23	5.84	25.27	2.69	22.0

Features

- low insertion loss, 0.1 dB typ.
- high isolation, 30 dB typ.
- excellent input & output VSWR, 1.1:1 typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shielded case

Applications

- SHF
- defense communications
- instrumentation

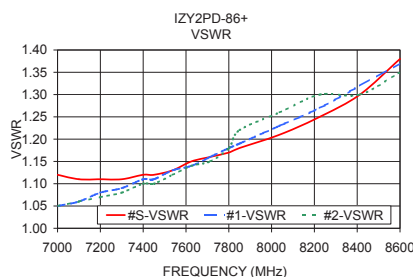
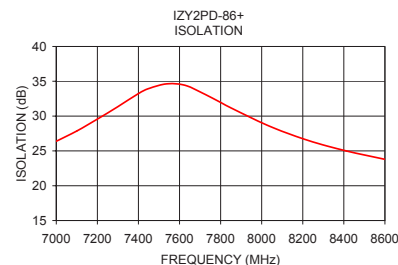
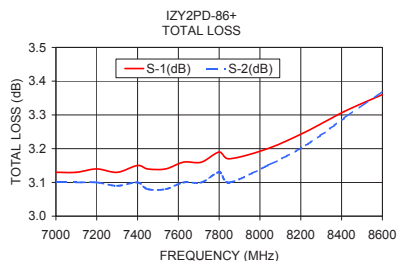
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S	OUT	Typ.	Max.
f_L - f_U					Max.	Max.	Typ.	Max.	Typ.	Max.
7000-8600	30	18	0.1	0.5	6	0.25	1.1	1.45	1.1	1.4

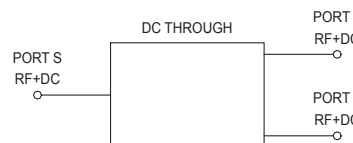
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
7000.00	3.13	3.10	0.03	26.38	1.12	1.05	1.05
7099.90	3.13	3.10	0.03	27.86	1.11	1.06	1.06
7199.80	3.14	3.10	0.04	29.56	1.11	1.08	1.07
7299.70	3.13	3.09	0.04	31.35	1.11	1.09	1.08
7399.60	3.15	3.10	0.05	33.23	1.12	1.11	1.10
7450.00	3.14	3.08	0.06	33.95	1.12	1.11	1.10
7537.60	3.14	3.08	0.06	34.63	1.13	1.13	1.12
7625.20	3.16	3.10	0.06	34.44	1.15	1.14	1.14
7712.80	3.16	3.10	0.06	33.29	1.16	1.16	1.15
7800.40	3.19	3.13	0.06	31.96	1.17	1.18	1.18
7850.00	3.17	3.10	0.06	31.18	1.18	1.19	1.22
8037.50	3.20	3.15	0.05	28.55	1.21	1.23	1.26
8225.00	3.25	3.21	0.04	26.52	1.25	1.27	1.30
8412.50	3.31	3.29	0.02	24.99	1.30	1.32	1.30
8600.00	3.36	3.37	0.01	23.79	1.38	1.37	1.35

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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REV. F
 M160892
 IZY2PD-86
 HY/TD/CP/AM
 180206

2 Way-0° Power Splitter/Combiner

IZY2PD-86+

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2				S	1	2
7000.0	3.13	3.10	0.03	26.38	7000.0	1.12	1.05	1.05
7099.9	3.13	3.10	0.03	27.86	7099.9	1.11	1.06	1.06
7199.8	3.14	3.10	0.04	29.56	7199.8	1.11	1.08	1.07
7299.7	3.13	3.09	0.04	31.35	7299.7	1.11	1.09	1.08
7399.6	3.15	3.10	0.05	33.23	7399.6	1.12	1.11	1.10
7450.0	3.14	3.08	0.06	33.95	7450.0	1.12	1.11	1.10
7537.6	3.14	3.08	0.06	34.63	7537.6	1.13	1.13	1.12
7625.2	3.16	3.10	0.06	34.44	7625.2	1.15	1.14	1.14
7712.8	3.16	3.10	0.06	33.29	7712.8	1.16	1.16	1.15
7800.4	3.19	3.13	0.06	31.96	7800.4	1.17	1.18	1.18
7850.0	3.17	3.10	0.06	31.18	7850.0	1.18	1.19	1.22
8037.5	3.20	3.15	0.05	28.55	8037.5	1.21	1.23	1.26
8225.0	3.25	3.21	0.04	26.52	8225.0	1.25	1.27	1.30
8412.5	3.31	3.29	0.02	24.99	8412.5	1.30	1.32	1.30
8600.0	3.36	3.37	0.01	23.79	8600.0	1.38	1.37	1.35

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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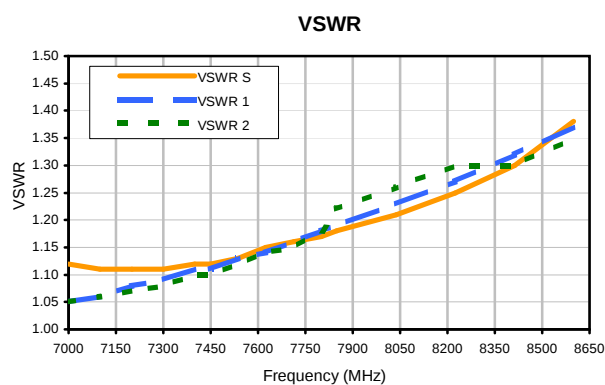
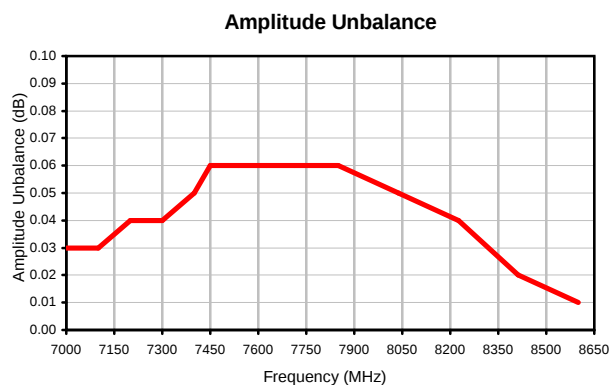
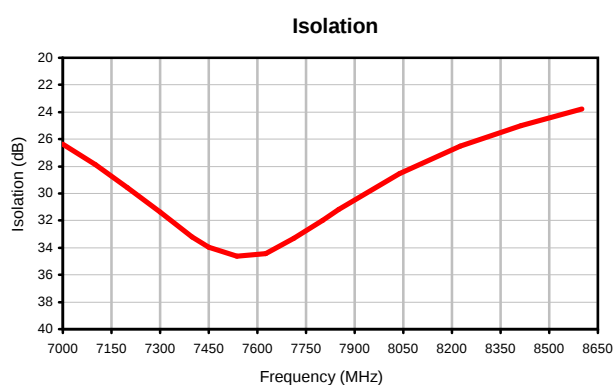
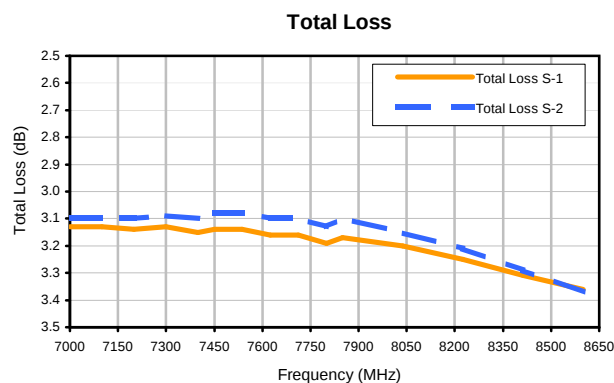
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Typical Performance Curves



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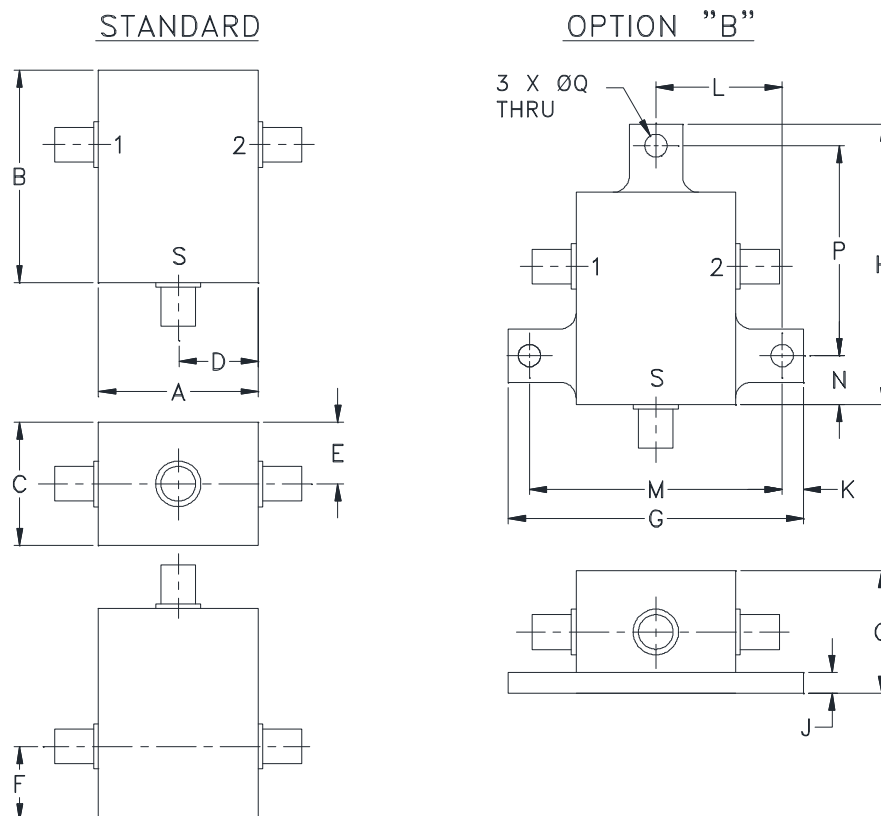
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Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L
JJJ245	.75 (19.05)	1.00 (25.40)	.58 (14.73)	.38 (9.65)	.29 (7.37)	.35 (8.89)	1.39 (35.31)	1.32 (33.53)	.10 (2.54)	.10 (2.54)	.595 (15.11)

CASE#	M	N	P	Q	WT. GRAM
JJJ245	1.190 (30.23)	.23 (5.84)	.995 (25.27)	.106 (2.69)	22.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Mounting bracket available upon request. Add suffix B to part number.



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