NON-CATALOG

DC Pass

Power Splitter/Combiner

IZY2PD-64+
IZY2PD-64

2 Way-0° 50Ω 5800 to 6400 MHz

CASE STYLE: JJJ245

Connectors	Model
SMA	IZY2PD-64(+)
BRACKET (OPTION "B")	

+RoHS Compliant

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

Maximum Ratings

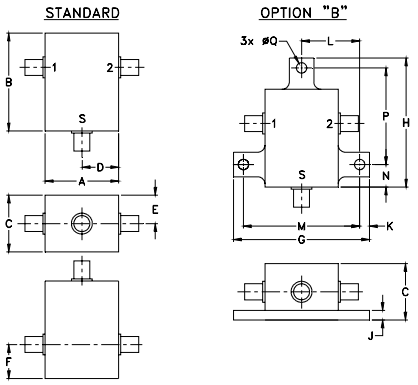
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.
DC Current	1.0 A (500mA for each port)

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, 0.2 dB typ.
- high isolation, 35 dB typ.
- excellent input VSWR, 1.05:1 typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

Applications

- SHF
- amateur radio
- communication systems

Electrical Specifications

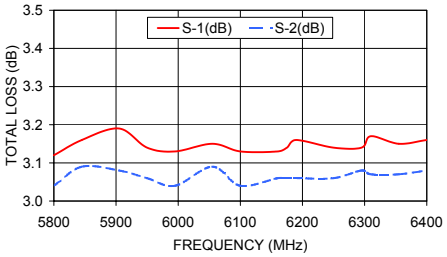
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
5800-6400	35	24	0.2	0.5	5	0.3	1.05	1.3	1.2	1.35

Typical Performance Data

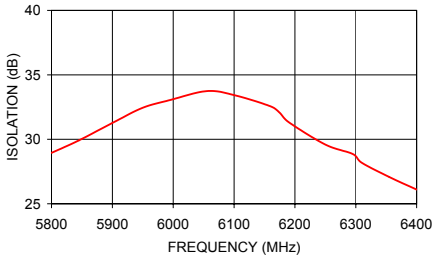
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5800.00	3.12	3.04	0.08	28.95	0.70	1.10	1.09	1.09
5845.00	3.16	3.09	0.07	29.92	0.49	1.09	1.09	1.09
5905.00	3.19	3.08	0.11	31.39	0.51	1.08	1.09	1.08
5950.00	3.14	3.06	0.08	32.45	0.62	1.07	1.09	1.08
5995.00	3.13	3.04	0.09	33.05	0.54	1.06	1.08	1.08
6055.00	3.15	3.09	0.06	33.74	0.53	1.06	1.08	1.07
6100.00	3.13	3.04	0.09	33.43	0.71	1.05	1.08	1.07
6160.00	3.13	3.06	0.08	32.56	0.57	1.05	1.08	1.07
6175.00	3.14	3.06	0.08	32.06	0.64	1.05	1.09	1.07
6190.00	3.16	3.06	0.10	31.32	0.41	1.05	1.08	1.07
6250.00	3.14	3.06	0.08	29.59	0.41	1.05	1.09	1.07
6295.00	3.14	3.08	0.06	28.86	0.29	1.05	1.09	1.07
6310.00	3.17	3.07	0.10	28.18	0.74	1.05	1.09	1.07
6355.00	3.15	3.07	0.08	27.08	0.66	1.05	1.09	1.07
6400.00	3.16	3.08	0.08	26.10	0.64	1.06	1.09	1.07

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

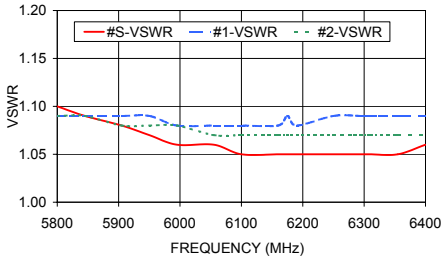
IZY2PD-64
TOTAL LOSS



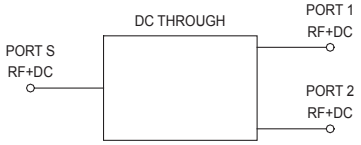
IZY2PD-64
ISOLATION



IZY2PD-64
VSWR



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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2 Way-0° Power Splitter/Combiner IZY2PD-64

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS[1] (dB) S-1	TOTAL LOSS[1] (dB) S-2	AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1) S	VSWR (:1) 1	VSWR (:1) 2
5800.0	3.12	3.04	0.08	28.95	0.70	5800.0	1.10	1.09	1.09
5815.0	3.11	3.03	0.08	29.30	0.55	5815.0	1.10	1.09	1.09
5830.0	3.13	3.03	0.10	29.67	0.41	5830.0	1.09	1.09	1.09
5845.0	3.16	3.09	0.07	29.92	0.49	5845.0	1.09	1.09	1.09
5860.0	3.14	3.04	0.10	30.11	0.64	5860.0	1.09	1.09	1.09
5875.0	3.15	3.05	0.10	30.50	0.32	5875.0	1.08	1.09	1.08
5890.0	3.14	3.02	0.12	31.05	0.49	5890.0	1.08	1.09	1.08
5905.0	3.19	3.08	0.11	31.39	0.51	5905.0	1.08	1.09	1.08
5920.0	3.17	3.06	0.11	31.77	0.50	5920.0	1.07	1.09	1.08
5935.0	3.15	3.06	0.08	32.17	0.61	5935.0	1.07	1.08	1.08
5950.0	3.14	3.06	0.08	32.45	0.62	5950.0	1.07	1.09	1.08
5965.0	3.16	3.06	0.10	32.77	0.52	5965.0	1.07	1.08	1.08
5980.0	3.12	3.03	0.09	32.99	0.39	5980.0	1.06	1.08	1.08
5995.0	3.13	3.04	0.09	33.05	0.54	5995.0	1.06	1.08	1.08
6010.0	3.17	3.08	0.09	33.70	0.57	6010.0	1.06	1.08	1.08
6025.0	3.17	3.05	0.12	33.35	0.64	6025.0	1.06	1.08	1.07
6040.0	3.18	3.07	0.11	33.68	0.48	6040.0	1.06	1.08	1.07
6055.0	3.15	3.09	0.06	33.74	0.53	6055.0	1.06	1.08	1.07
6070.0	3.17	3.09	0.08	33.90	0.71	6070.0	1.05	1.08	1.07
6085.0	3.13	3.06	0.07	33.48	0.56	6085.0	1.05	1.08	1.07
6100.0	3.13	3.04	0.09	33.43	0.71	6100.0	1.05	1.08	1.07
6115.0	3.14	3.06	0.07	33.06	0.88	6115.0	1.05	1.08	1.07
6130.0	3.12	3.04	0.07	32.84	0.19	6130.0	1.05	1.08	1.07
6145.0	3.17	3.07	0.10	32.66	0.79	6145.0	1.05	1.08	1.07
6160.0	3.13	3.06	0.08	32.56	0.57	6160.0	1.05	1.08	1.07
6175.0	3.14	3.06	0.08	32.06	0.64	6175.0	1.05	1.09	1.07
6190.0	3.16	3.06	0.10	31.32	0.41	6190.0	1.05	1.08	1.07
6205.0	3.17	3.07	0.10	31.00	0.55	6205.0	1.05	1.09	1.07
6220.0	3.19	3.10	0.09	30.69	0.40	6220.0	1.05	1.08	1.07
6235.0	3.16	3.06	0.09	30.30	0.82	6235.0	1.05	1.09	1.07
6250.0	3.14	3.06	0.08	29.59	0.41	6250.0	1.05	1.09	1.07
6265.0	3.15	3.07	0.08	29.43	0.55	6265.0	1.05	1.09	1.07
6280.0	3.14	3.04	0.10	29.08	0.45	6280.0	1.05	1.09	1.07
6295.0	3.14	3.08	0.06	28.86	0.29	6295.0	1.05	1.09	1.07
6310.0	3.17	3.07	0.10	28.18	0.74	6310.0	1.05	1.09	1.07
6325.0	3.18	3.09	0.09	27.80	0.64	6325.0	1.05	1.09	1.07
6340.0	3.19	3.09	0.09	27.48	0.59	6340.0	1.05	1.09	1.07
6355.0	3.15	3.07	0.08	27.08	0.66	6355.0	1.05	1.09	1.07
6370.0	3.14	3.08	0.07	26.78	0.39	6370.0	1.05	1.09	1.07
6400.0	3.16	3.08	0.08	26.10	0.64	6400.0	1.06	1.09	1.07

[1]Total Loss = Insertion Loss + 3dB Splitter Loss

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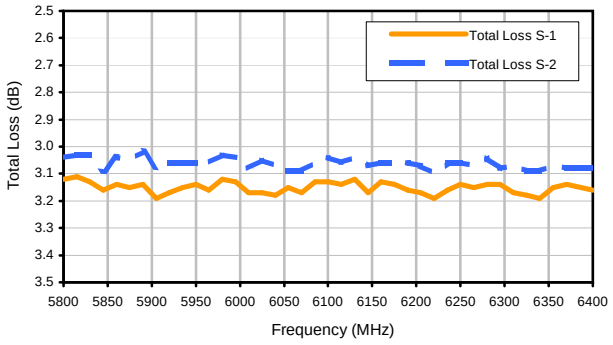
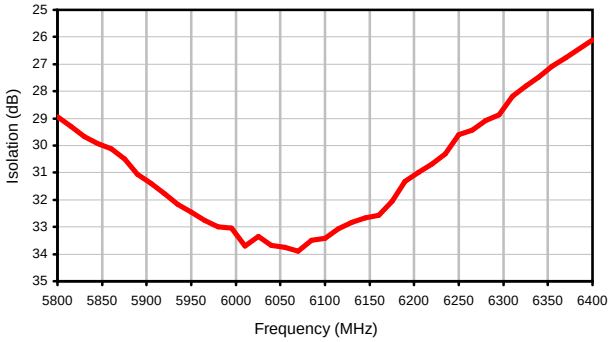
2 Way-0° Power Splitter/Combiner IZY2PD-64

Typical Performance Curves

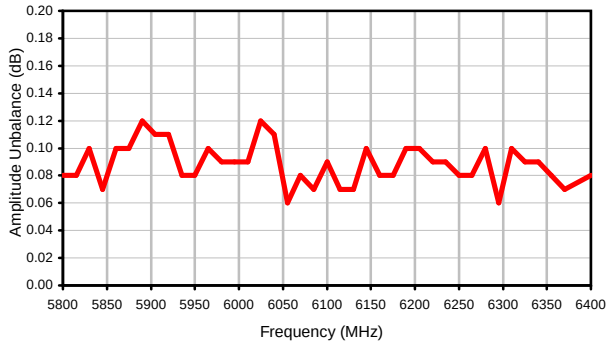
Total Loss



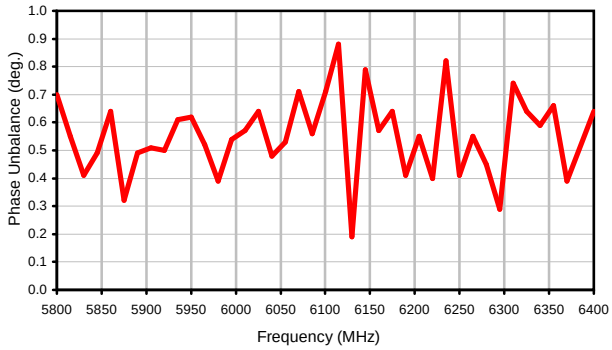
Isolation



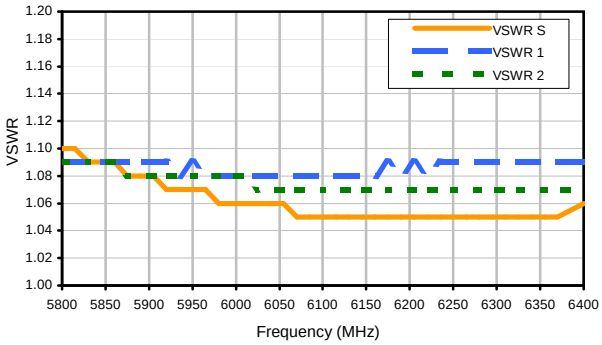
Amplitude Unbalance



Phase Unbalance



VSWR



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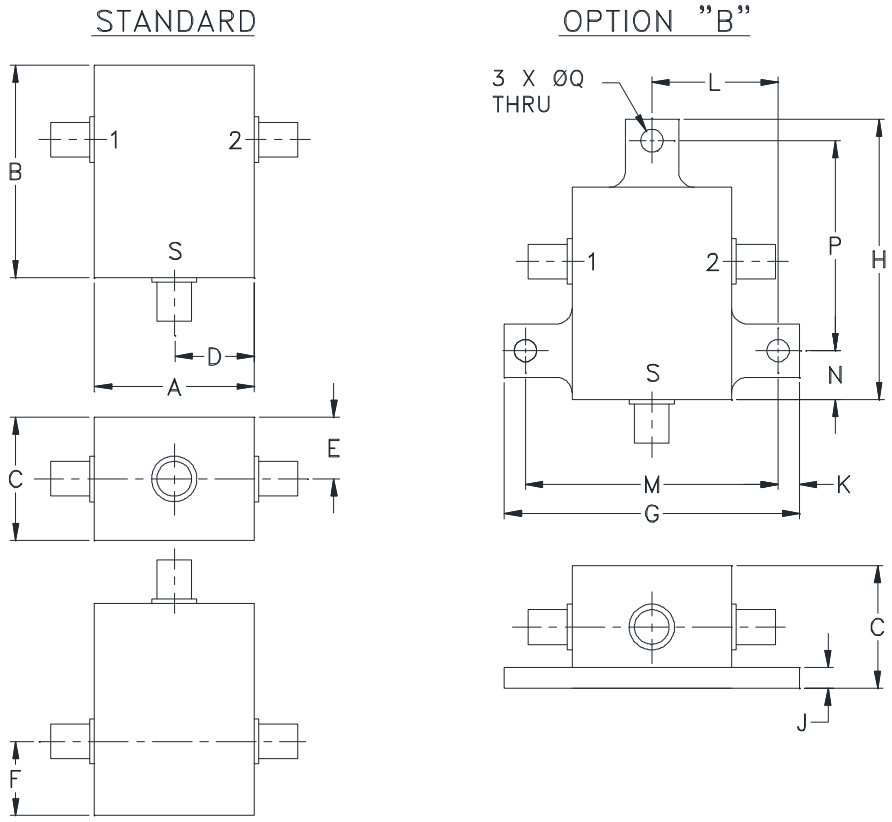
Case Style JJJ

JJJ245

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. ± .03; 3 Pl. ± .015

Notes:

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

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