

# Power Splitters/Combiners

## ZX10-SERIES

### 2 Way-0°, 50Ω 2 to 12600 MHz



CASE STYLE: FL905

#### Features

- low insertion loss, 0.25 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- patent pending

#### Applications

- communications
- defense
- cable tv relay
- radio
- cellular/GSM
- UHF/VHF receivers/transmitters

- PCN/PCS
- VSAT
- DECT
- PHS

#### Electrical Specifications ( $T_{AMB}=25^{\circ}\text{C}$ )

MODEL NO.	FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) above 3.0 dB	PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	CASE STYLE	CONNECTION	PRICE \$
	$f_L-f_U$	Typ. Min.	Typ. Max.	Max.	Max.			Qty. (1-24)
ZX10-2-12	2-1200	21 16	0.5 1.5	3.0	0.5	FL905	ar	24.95
	2-20	29 21	0.3 0.7	3.0	0.5			
	20-600	25 18	0.3 0.8	2.0	0.4			
	600-1000	21 18	0.5 1.0	2.0	0.5			
ZX10-2-20	200-2000	20 16	0.8 2.2	6.0	0.4	FL905	ar	24.95
	800-1000	22 17	0.5 0.9	2.0	0.3			
	500-1500	22 17	0.5 1.3	3.0	0.4			
	1800-2000	20 17	1.6 2.2	6.0	0.4			
ZX10-2-25	1000-2500	20 14	1.2 2.2	10.0	1.2	FL905	ar	26.95
	1400-1800	18 16	0.9 1.4	6.0	0.6			
	1800-2000	19 16	0.9 1.4	6.0	0.6			
ZX10-2-42	1900-4200	23 10	0.2 1.0	3.0	0.3	FL905	ar	34.95
	2600-3400	23 17	0.2 0.5	2.0	0.3			
ZX10-2-71	2950-7100	23 10	0.25 0.9	3.0	0.4	FL905	ar	34.95
	4500-5700	23 18	0.2 0.4	3.0	0.3			
ZX10-2-98	4750-9800	23 10	0.3 1.2	9.0	0.5	FL905	ar	39.95
	7000-9000	23 18	0.3 0.8	8.0	0.4			
ZX10-2-126	7400-12600	23 10	0.3 1.3	10.0	0.5	FL905	ar	39.95
	9000-11000	23 16	0.3 0.6	5.0	0.3			

#### Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

Power Input (as a splitter) 1.0\*W max.

Power Input (as a combiner) 0.125\*\*W max.

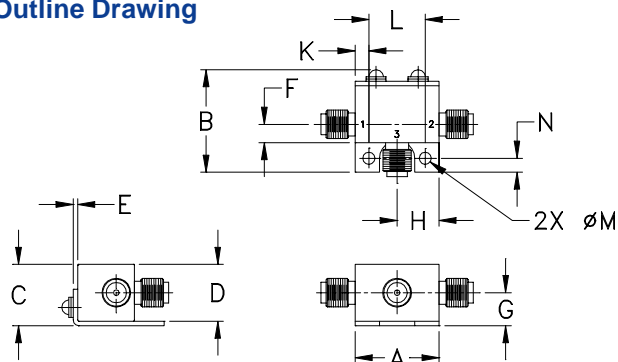
\*0.5W max. for ZX10-2-12, ZX10-2-20

\*\*0.1W max. for ZX10-2-42 and ZX10-2-126

#### Port Connections

PORT	(ar)
SUM PORT	3
PORT 1	1
PORT 2	2

#### Outline Drawing



#### Outline Dimensions (inch/mm)

A	B	C	D	E	F
.74	.90	.54	.50	.04	.16
18.80	22.86	13.72	12.70	1.02	4.06
K	L	M	N	wt.	
.122	.496	.106	.122	grams	
3.10	12.60	2.69	3.10	20.0	

REV. D  
M92138  
ZX10-2-12 ED-10145/1  
ZX10-2-20 ED-10145/2  
ZX10-2-25 ED-10145/3  
ZX10-2-42 ED-10281/2  
ZX10-2-71 ED-10146/1  
ZX10-2-98 ED-10280/1  
ZX10-2-126 ED-10227/1  
HY/RS/CP  
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