

Fixed Magnitude Mismatch

Electronic Line Stretcher



ELS-450

180 to 450 MHz

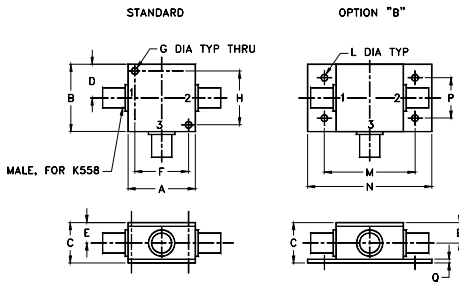
Maximum Ratings

Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 100°C
RF Input Power	13 dBm
Control Voltage	0.5V to 30V

Pin Configuration

RF IN	1
MONITOR OUT	2
CONTROL	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt.
—	—	.125	1.688	2.18	.75	.07	grams
—	—	3.18	42.88	55.37	19.05	1.78	70.0

Features

- over 360° phase shift of the reflected signal
- normalized and stable magnitude of the reflected signal
- voltage controlled for automated applications
- patent pending

Applications

- automated load-pull measurement of oscillators

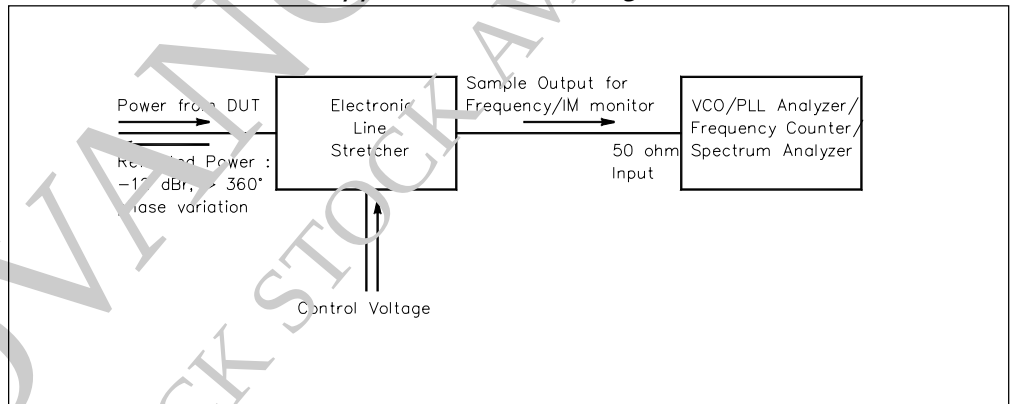


CASE STYLE: K18
CONNECTOR: SMA FEMALE
PRICE: \$149.95 ea.
QTY.: (1-9)

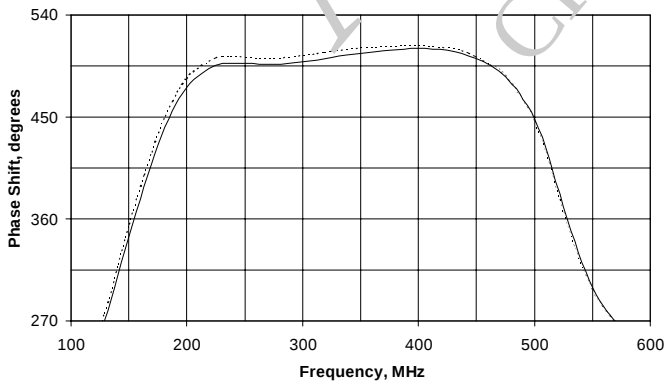
Electrical Specifications

FREQUENCY RANGE (MHz) f_L - f_U	INPUT POWER (dBm) Max.	PHASE RANGE (Degrees) Min.	RETURN LOSS (dB) Typ.	CONTROL VOLTAGE (V)
180-450	10	360	10-12	0.5-25

Application Block Diagram

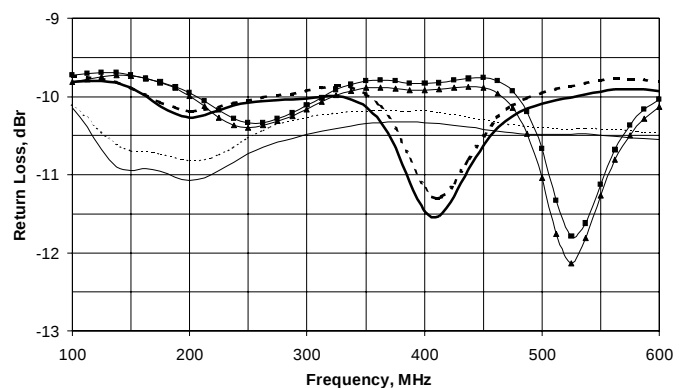


Maximum Phase Shift vs. Frequency
at temperature extremes
@ Pin = +7 dBm



— 0C +50C

Return Loss vs. Frequency
at temperature extremes
@ Pin = +7 dBm



..... Vc = 0.5V @ 0C - - - Vc = 10V @ 0C —●— Vc = 25V @ 0C
— Vc = 0.5V @ +50C —·— Vc = 10V @ +50C —▲— Vc = 25V @ +50C



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REV. OR
M71878
ED-8422/1
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