Voltage Variable Attenuator

ZX73-2500+
ZX73-2500

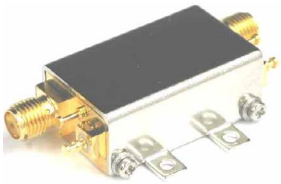
10 to 2500 MHz

Features

- Broadband, 10-2500 MHz
- IP3, +43 dBm typ.
- 40 dB attenuation @ 1500 MHz
- Good VSWR at in /out ports over atenuation range
- No external bias and RF matching network required
- Shielded case
- Protected by US Patent 6,790,049

Applications

- Variable gain amplifier
- Power level control
- Feed-forward amplifiers
- ALC circuits



FEMALE SMA shown

CASE STYLE: GD958

SMA Connectors		Model	Price	Qty.
INPUT	**OUTPUT**			
FEMALE	**FEMALE**	ZX73-2500-S+	$49.95	(1-9)
FEMALE	**FEMALE**	ZX73-2500-S	$49.95	(1-9)
MALE	**FEMALE**	ZX73-2500M-S+	$49.95	(1-9)
MALE	**FEMALE**	ZX73-2500M-S	$49.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Electrical Specifications @ 25°C

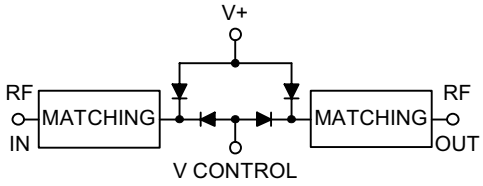
MODEL NO.	FREQ. (MHz)		MIN. INSERTION LOSS, dB (+15V)		MAX. ATTENUATION dB (0V)		INPUT POWER (dBm)	CONTROL Voltage (V)	CONTROL Current (mA)	IP3 (dBm)	RETURN LOSS (dB)	POWER SUPPLY Voltage (V)	POWER SUPPLY Current (mA)	CASE STYLE
	Min.	Min.	Typ.	Max.	Typ.	Min.	Max.		Max.	Typ.	Typ.		Max.	
ZX73-2500(+)	10 - 500		3.0	4.6	55	41	+20	0 - 17	30	43	20	+3 to +5	5	GD958
	500 - 1500		3.3	5.0	40	30	+20	0 - 17	30	43	20	+3 to +5	5	
	1500 - 2500		4.0	6.2	37	25	+20	0 - 17	30	44	20	+3 to +5	5	

Rise/fall time: 14μSec / 25μSec typ.
Switching Time, turn on/off: 14μSec / 25μSec typ.
[1] Improved R. Loss in/out performance can be achieved at certain frequencies by choosing a V+ between +3V to +5V

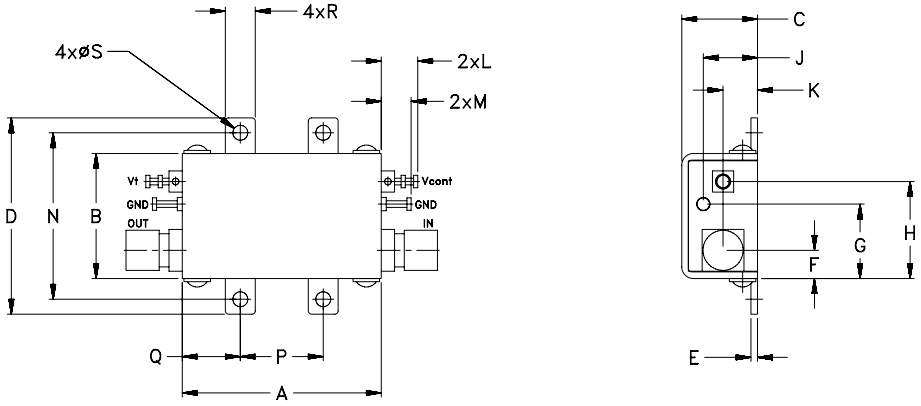
Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 85°C
Absolute Max. Supply Voltage (V+)	12V
Absolute Max. Tuning Voltage (Vctrl)	20V
Absolute Max. RF input level	+20 dBm

Equivalent schematic



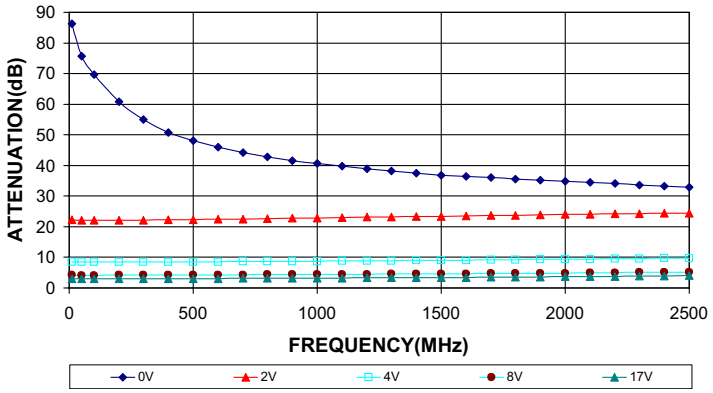
Outline Drawing



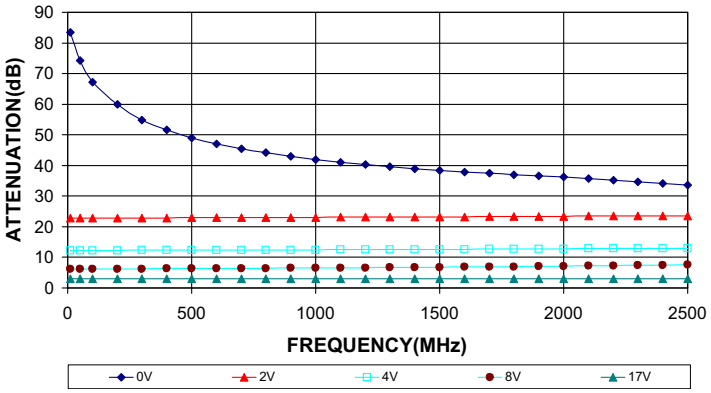
Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt.
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	0.50	.35	.18	.09	grams
30.50	19.1	11.6	30.0	1.0	4.3	11.4	14.9	8.3	5.3	5.6	4.6	25.4	12.7	8.9	4.6	2.3	35.0

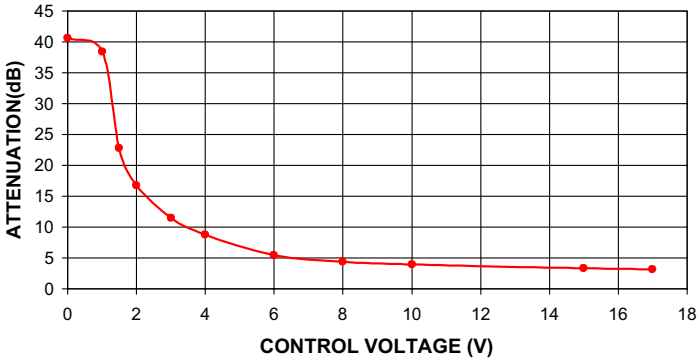
ZX73-2500
ATTENUATION Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=3V



ZX73-2500
ATTENUATION Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=5V



ZX73-2500
TYPICAL ATTENUATION AT 1000MHz @ V+=3V



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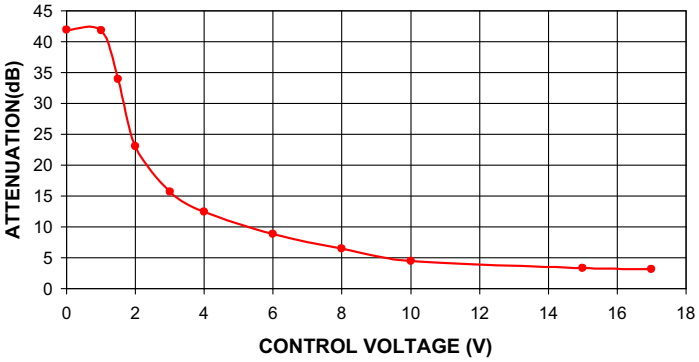

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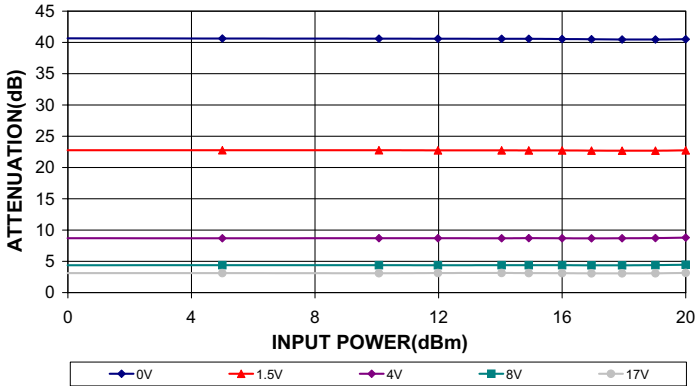
ATTENUATION Vs. INPUT POWER
Vs. CONTROL VOLTAGE AT 1000MHz @ V+=3V



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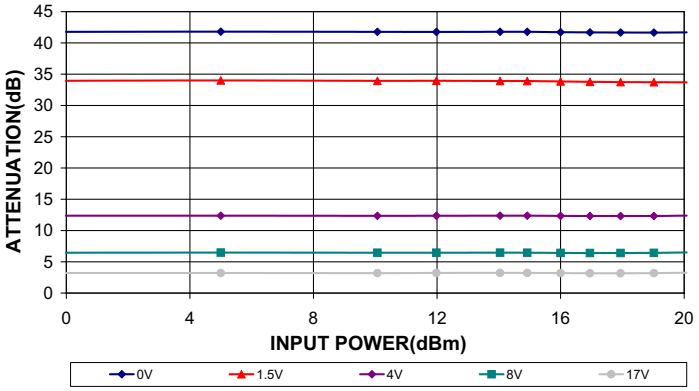

Performance Curves

ZX73-2500
INPUT RETURN LOSS Vs. FREQUENCY
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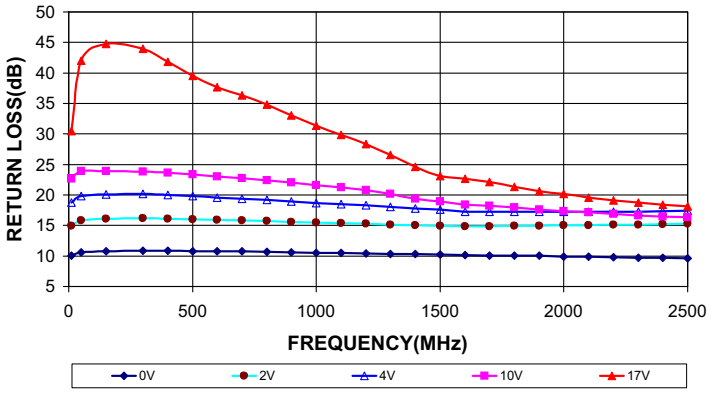

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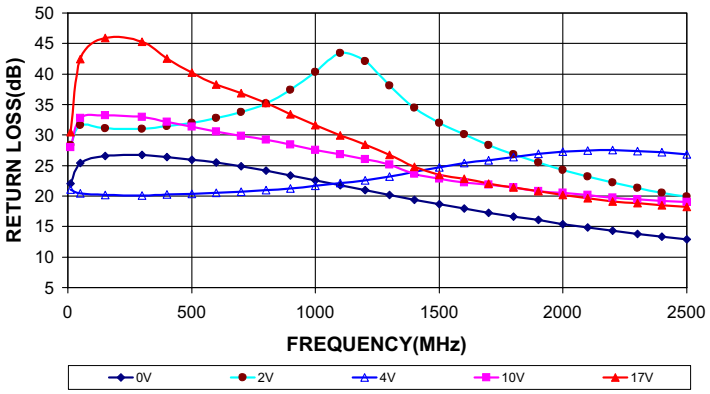

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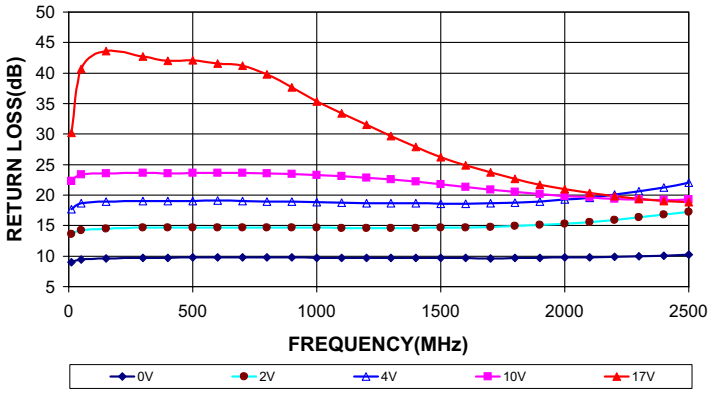

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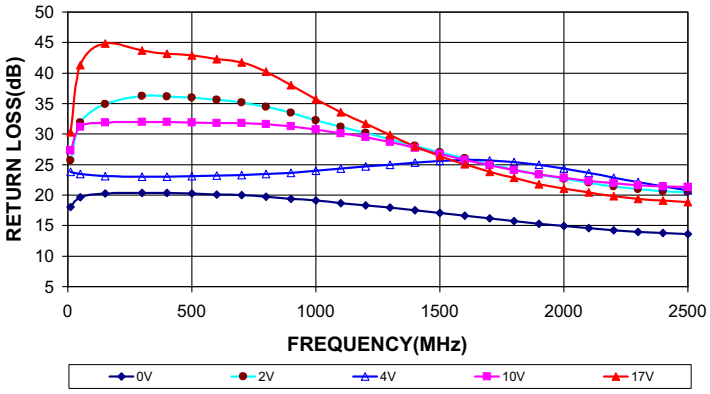

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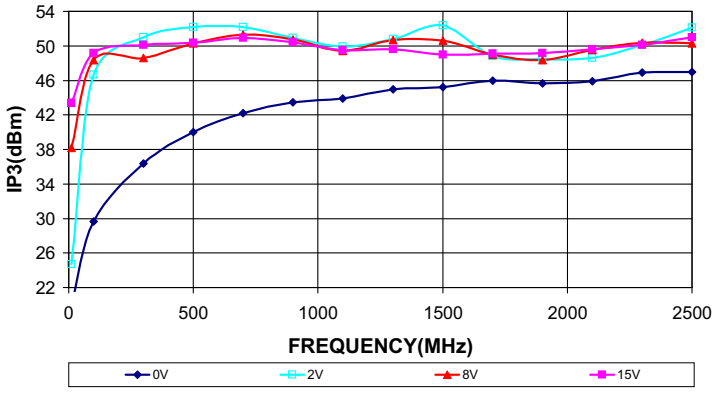

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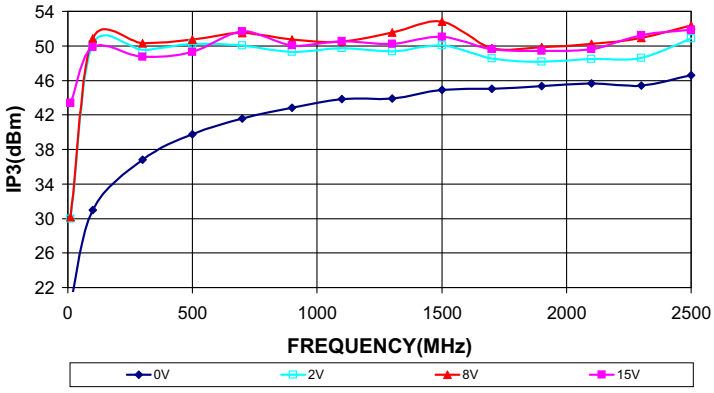
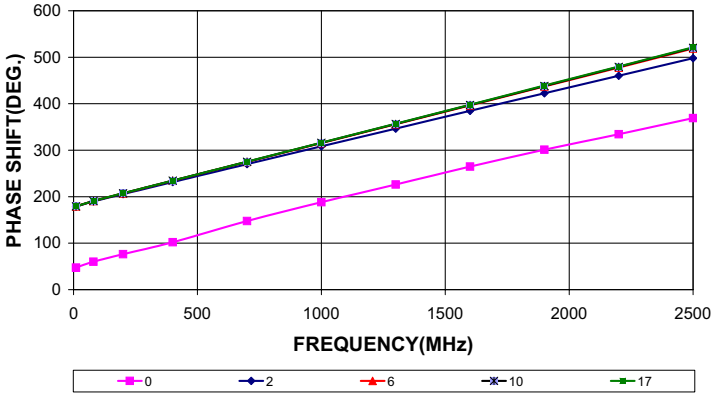


Performance Curves

ZX73-2500
PHASE SHIFT Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=3V



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