

Voltage Variable Attenuator

10 to 2500 MHz

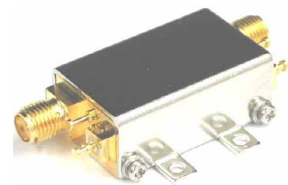
Features

- Broadband, 10-2500 MHz
- IP3, +43 dBm typ.
- 40 dB attenuation @ 1500 MHz
- Good VSWR at in /out ports over attenuation 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

ZX73-2500+
ZX73-2500



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		IP3 (dBm)	RETURN LOSS (dB)	POWER SUPPLY		CASE STYLE
	Min.	Min.	Typ.	Max.	Typ.	Min.		Voltage (V)	Current (mA)			Voltage (V)	Current (mA)	
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.

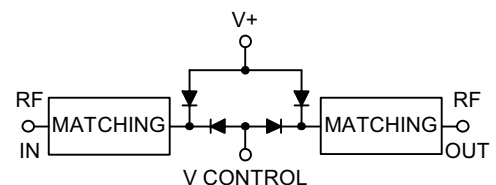
Switching Time, turn on/off: 14μSec / 25μSec typ.

¹ Improved R. Loss in/out performance can be achieved at certain frequencies by choosing a V+ between +3V to +5V

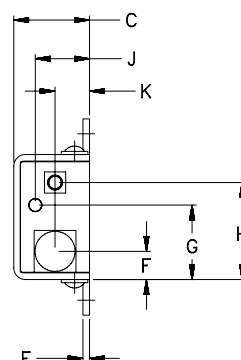
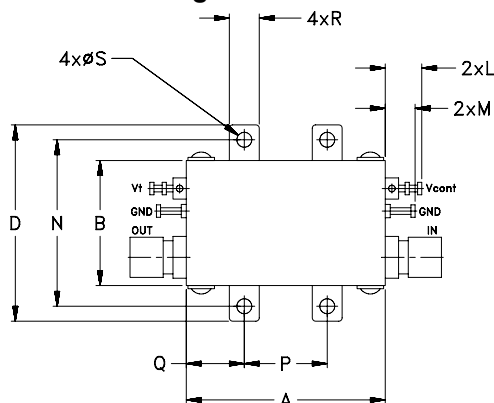
Maximum Ratings

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

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RF/IF MICROWAVE COMPONENTS

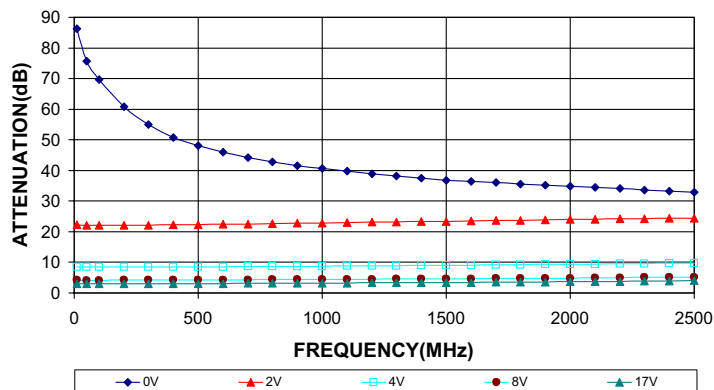
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REV. B
M109215
EDR-7796
ZX73-2500(+)
RAV/TD/CP
070109
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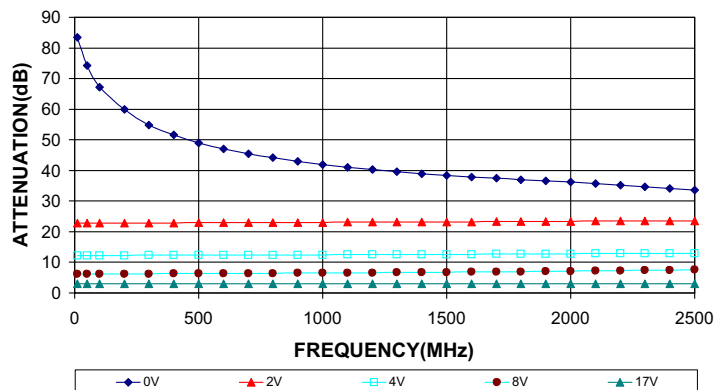
Performance Curves

ZX73-2500+
ZX73-2500

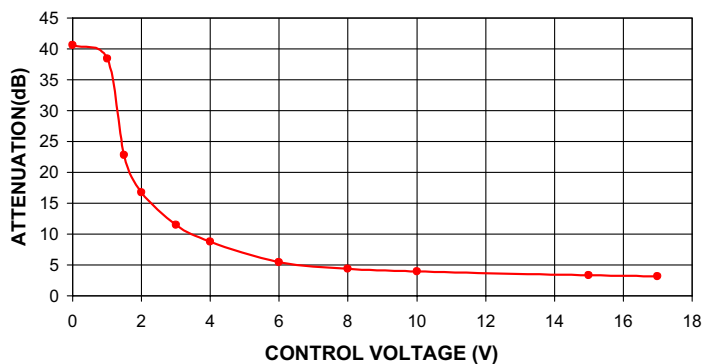
ZX73-2500
ATTENUATION Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=3V



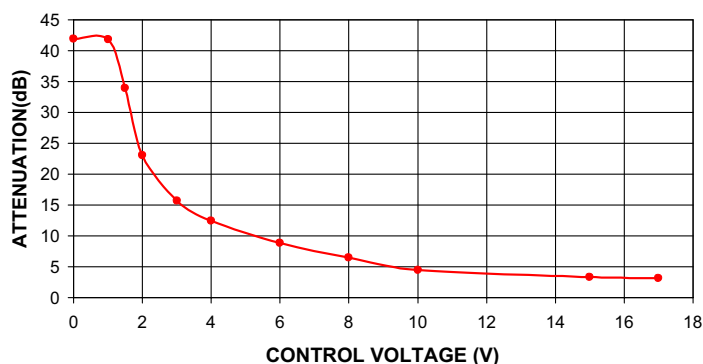
ZX73-2500
ATTENUATION Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=5V



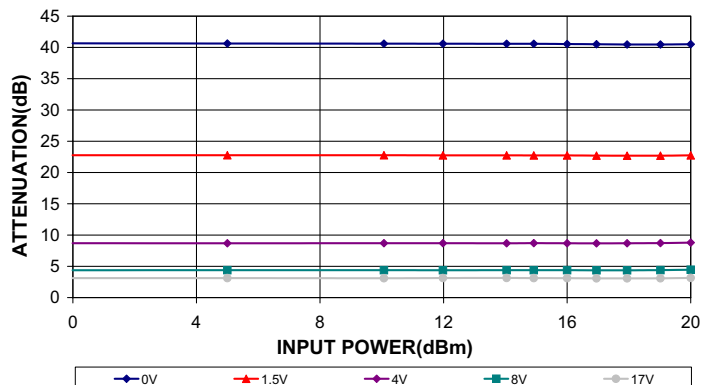
ZX73-2500
TYPICAL ATTENUATION AT 1000MHz @ V+=3V



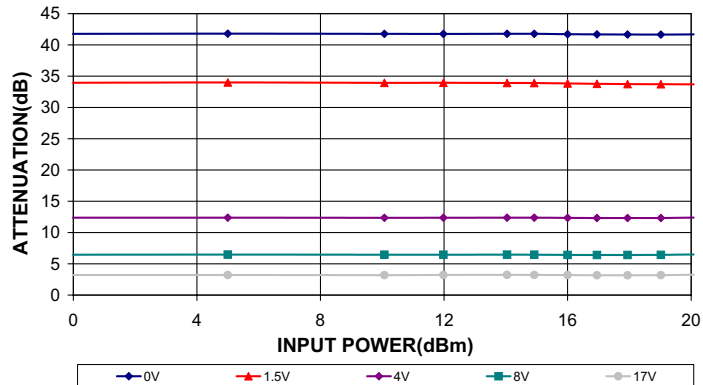
ZX73-2500
TYPICAL ATTENUATION AT 1000MHz @ V+=5V



ZX73-2500
ATTENUATION Vs. INPUT POWER
Vs. CONTROL VOLTAGE AT 1000MHz @ V+=3V



ZX73-2500
ATTENUATION Vs. INPUT POWER
Vs. CONTROL VOLTAGE AT 1000MHz @ V+=5V



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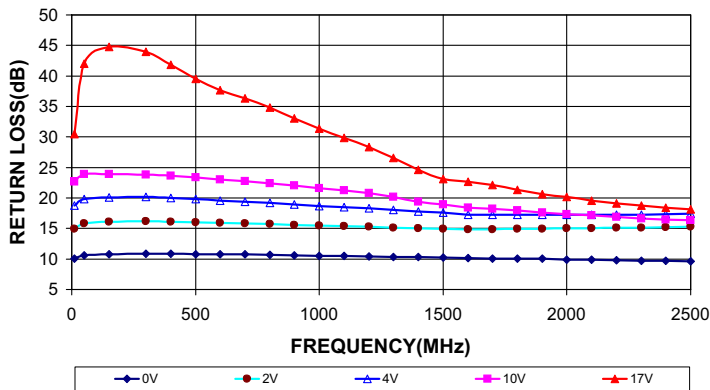
RF/IF MICROWAVE COMPONENTS



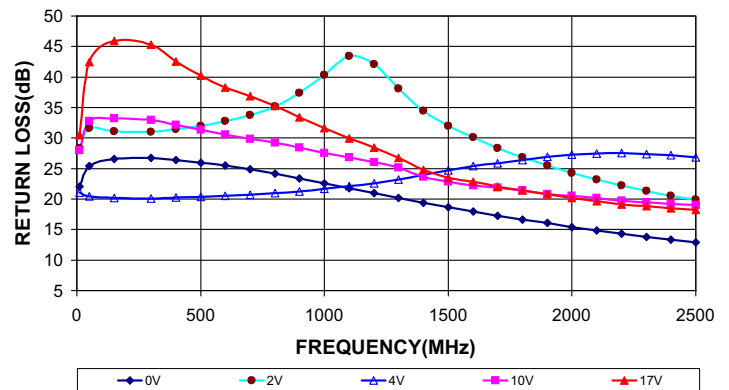
Performance Curves

ZX73-2500+ ZX73-2500

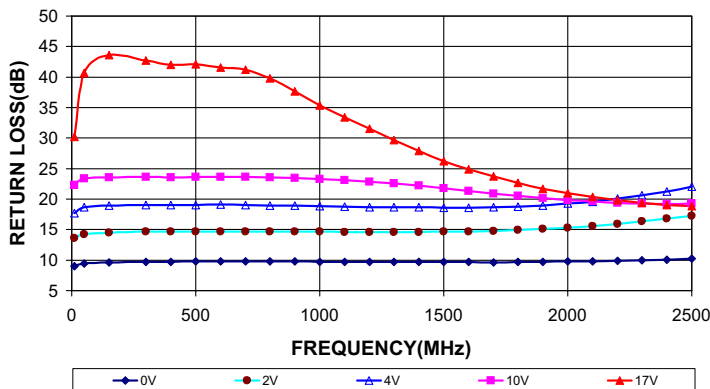
ZX73-2500
INPUT RETURN LOSS Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=3V



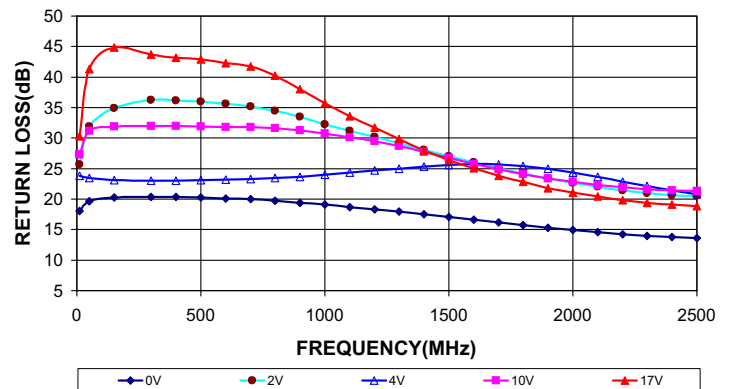
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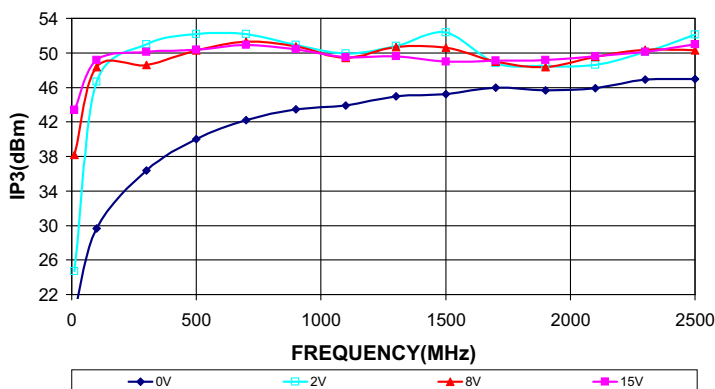
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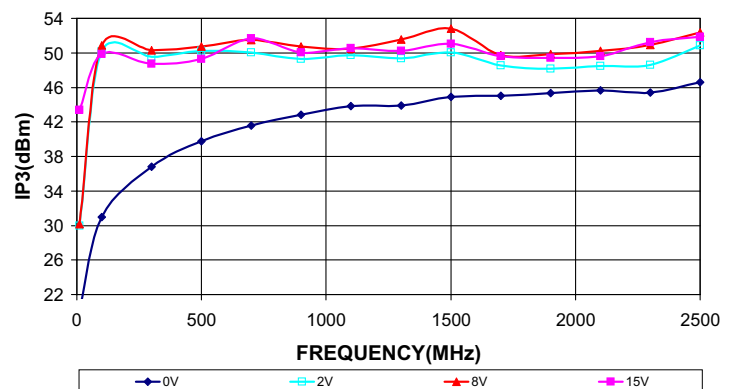
ZX73-2500
OUTPUT RETURN LOSS Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=5V



ZX73-2500
IP3 Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=3V



ZX73-2500
IP3 Vs. FREQUENCY
Vs. CONTROL VOLTAGE @ V+=5V



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RF/IF MICROWAVE COMPONENTS



Performance Curves

**ZX73-2500+
ZX73-2500**

