

Coaxial Voltage Variable Attenuator

ZX73-2500+

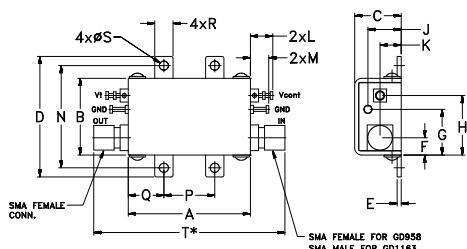
50Ω 10 to 2500 MHz

Maximum Ratings

| | |
|---------------------------------------|---------------|
| Operating Temperature | -55°C to 85°C |
| Storage Temperature | -55°C to 85°C |
| Absolute Max. Supply Voltage (V+) | 12V |
| Absolute Max. Control Voltage (Vctrl) | 20V |
| Absolute Max. RF Input Level | +20 dBm |

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing (GD958)



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G | H | J |
|------|-----|-----|------|-----|-----|-----|-----|-----|
| 1.20 | .75 | .46 | 1.18 | .04 | .17 | .45 | .59 | .33 |

| K | L | M | N | P | Q | R | S | T | wt. |
|-----|-----|-----|------|-----|-----|-----|------|------|-------|
| .21 | .22 | .18 | 1.00 | .50 | .35 | .18 | .106 | 1.88 | grams |

Note:

* T dimension is 2.05 inch (52.07 mm) for GD1163 Case Style.

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



FEMALE SMA shown

CASE STYLE: GD958

| SMA | Connectors | Model | Price | Qty. | Case |
|--------|------------|----------------|---------|-------|--------|
| INPUT | OUTPUT | | | | |
| FEMALE | FEMALE | ZX73-2500-S+ | \$49.95 | (1-9) | GD958 |
| MALE | FEMALE | ZX73-2500-M-S+ | \$49.95 | (1-9) | GD1163 |

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

| FREQ. (MHz) | MIN. INSERTION LOSS, dB (+15V) | | MAX. ATTENUATION dB (0V) | | INPUT POWER (dBm) | CONTROL Voltage (V) | IP3 (dBm) | RETURN LOSS ¹ (dB) | POWER SUPPLY Voltage (V) | POWER SUPPLY Current (mA) |
|----------------|-----------------------------------|------|-----------------------------|------|-------------------------|---------------------------|--------------|-------------------------------------|--------------------------------|---------------------------------|
| | Min. | Max. | Typ. | Max. | | | | | | |
| 10 | 500 | 3.0 | 4.6 | 55 | 41 | +20 | 0 - 17 | 30 | 43 | 20 |
| 500 | 1500 | 3.3 | 5.0 | 40 | 30 | +20 | 0 - 17 | 30 | 43 | 20 |
| 1500 | 2500 | 4.0 | 6.2 | 37 | 25 | +20 | 0 - 17 | 30 | 44 | 20 |

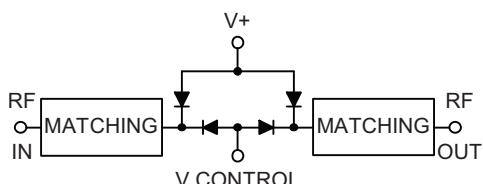
Notes:

Rise/Fall time: 14μSec/25μSec Typ.

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

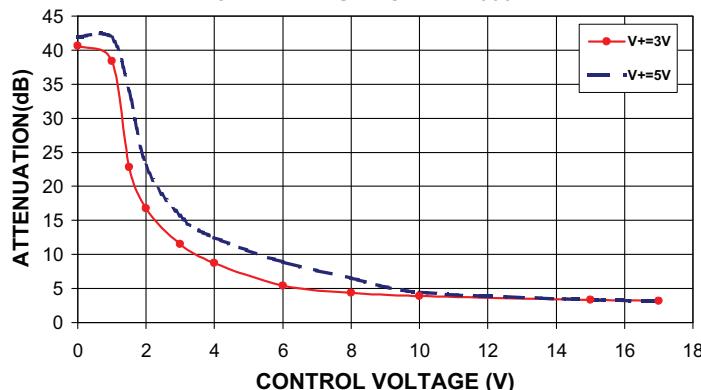
¹ Improved R. Loss in/out performance can be achieved at certain frequencies by choosing a V+ between +3V to +5V

Equivalent Schematic



ZX73-2500+

TYPICAL ATTENUATION AT 1000MHz



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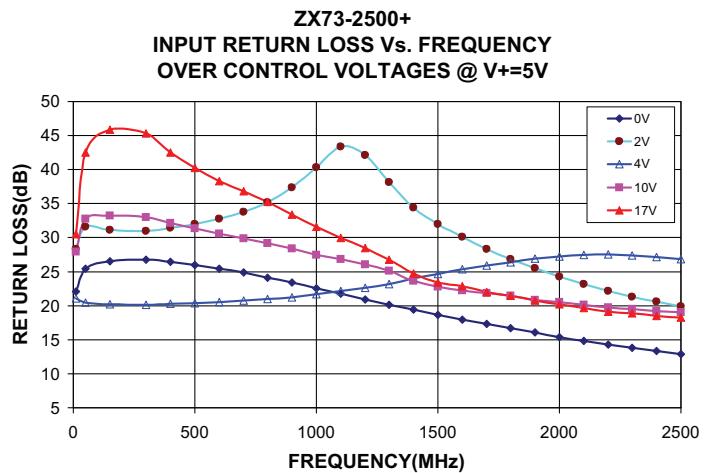
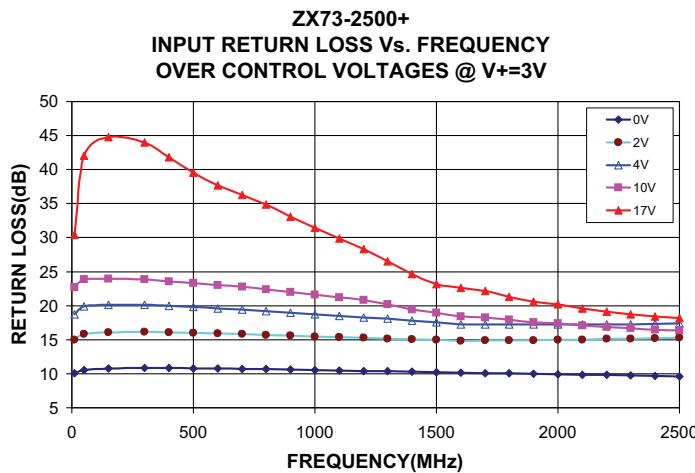
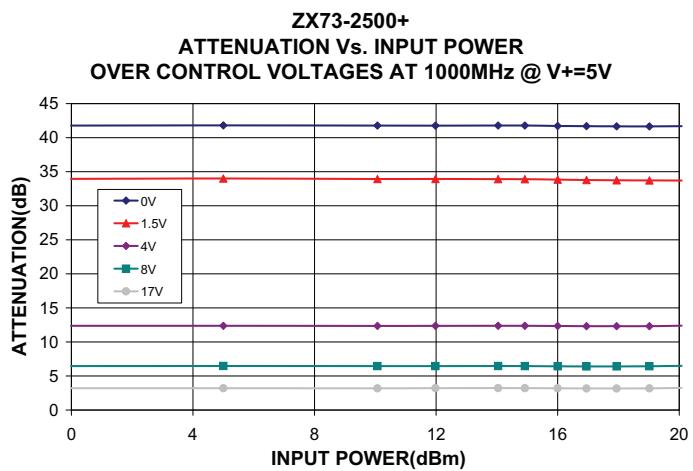
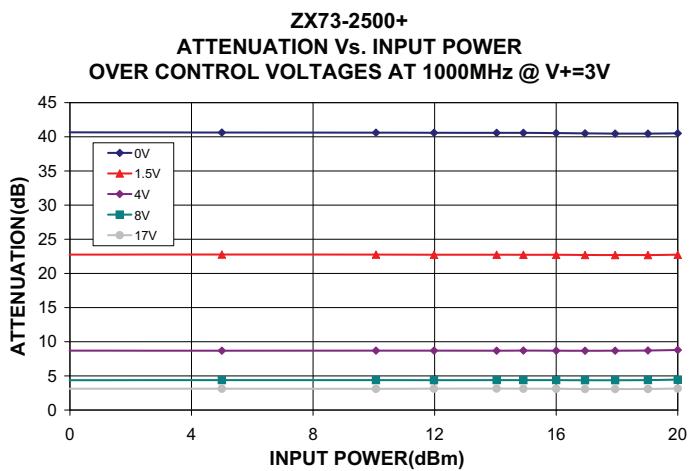
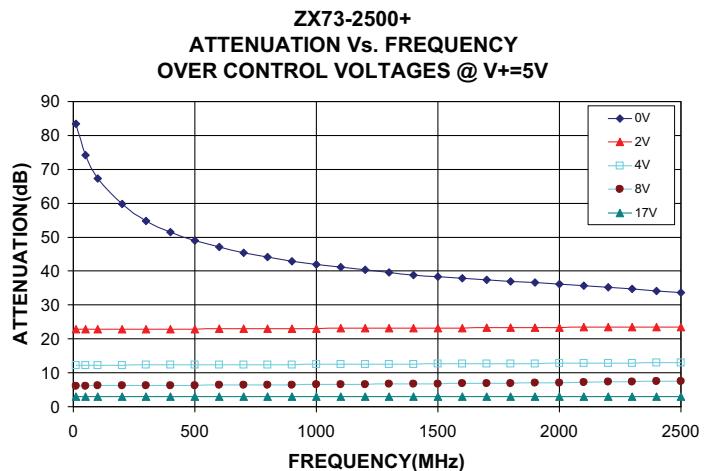
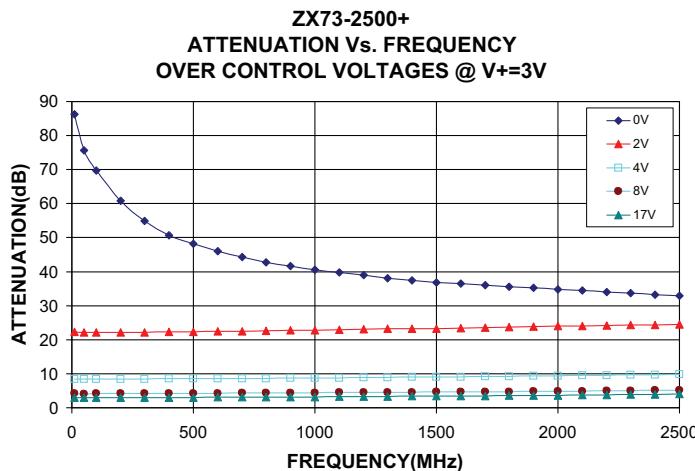
I/F/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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Performance Charts

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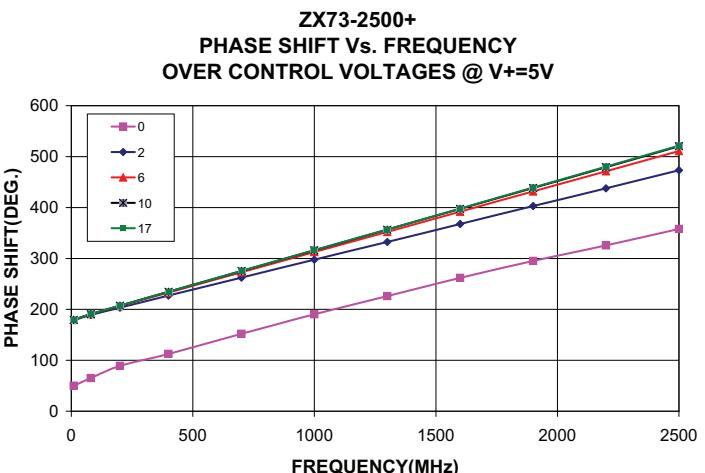
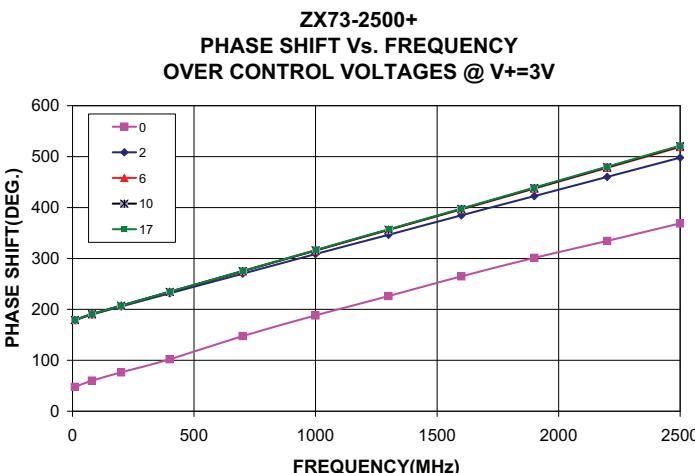
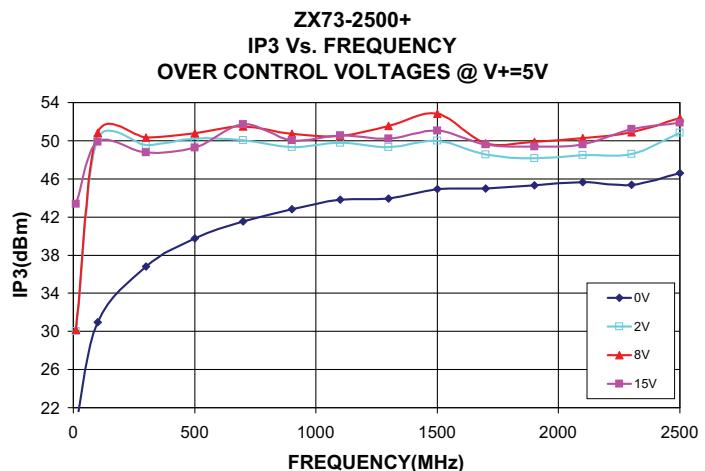
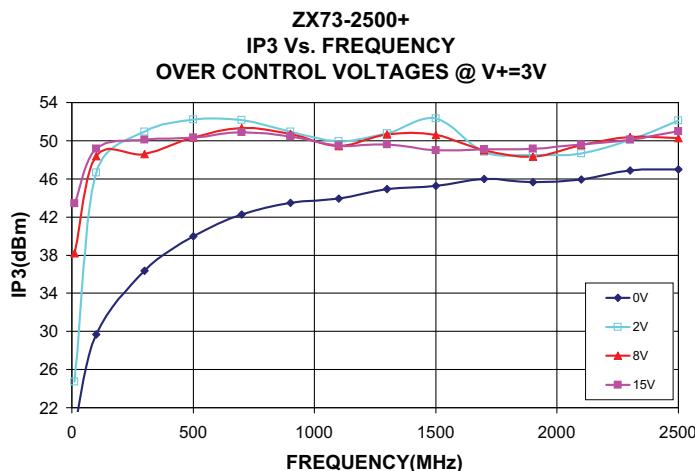
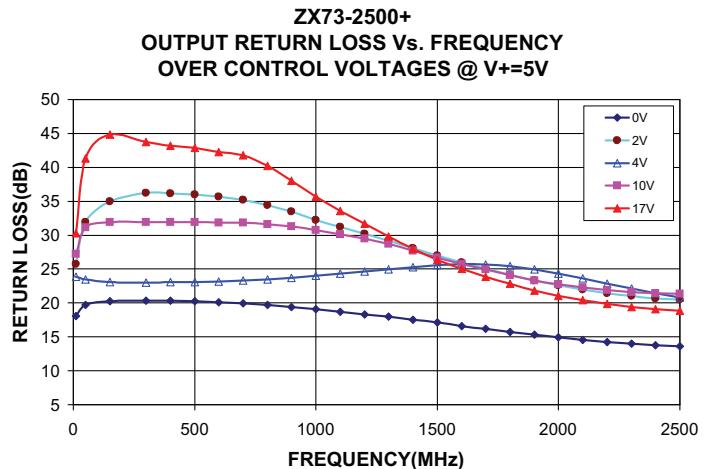
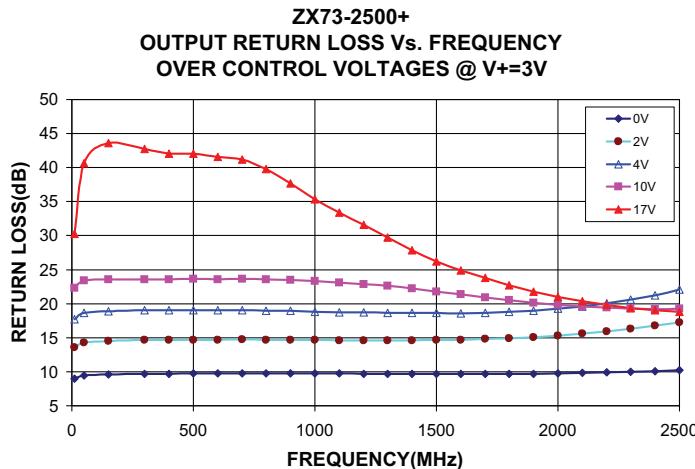
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